Field Test in Santa Cruz Volume 2 Figures

\$5AB A-715.7

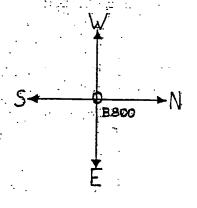
FIELD TEST OF THE LINS METHOD FOR THE RECOVERY OF OIL FROM TAR SAND

Volume 2

Figures

SANTA CRUZ, CALIFORNIA

TAR CONTENTS



HOLE POSITION IN FT FROM 8800 IN L8. SCALE: 1" = 50.

TAR CONTENTS IN % BY VEIGHT OF DRY TARSAND FROM 10-15 FT, 15-40 FT AND 40-45 FT, WRITTEN ABOVE THE HOLE POSITION.

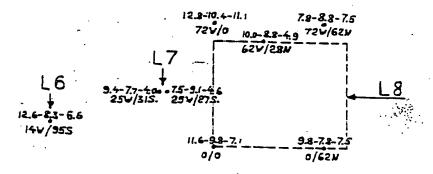
2.4-50-7.4 3004/2008

12.1-6.4-7.2 262V/0

| 190V/50S | 1-93-0 | 1-87-0 | 181V/5W | 2-85-32 | 86-90-0 | 181V/5W | 2-85-32 | 86-90-0 | 181V/75W | 173V/5W | 173V

5.0-8.5- ? 2004/200 N

7. -- 9.9-0 1004/200N

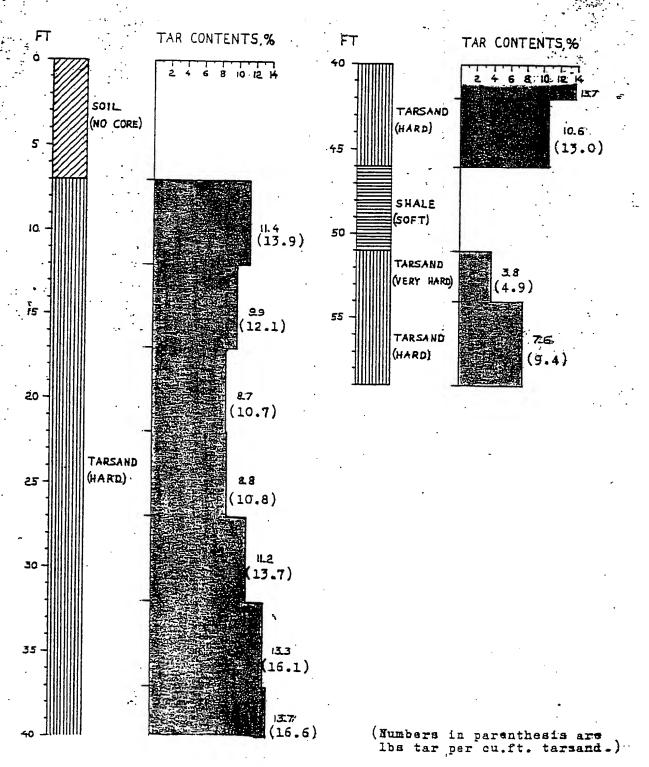


2-7.6-2.6 0/200 N

L 9 - 2 0 0: 基際 AUG. 30.1957: 88

Figure 2

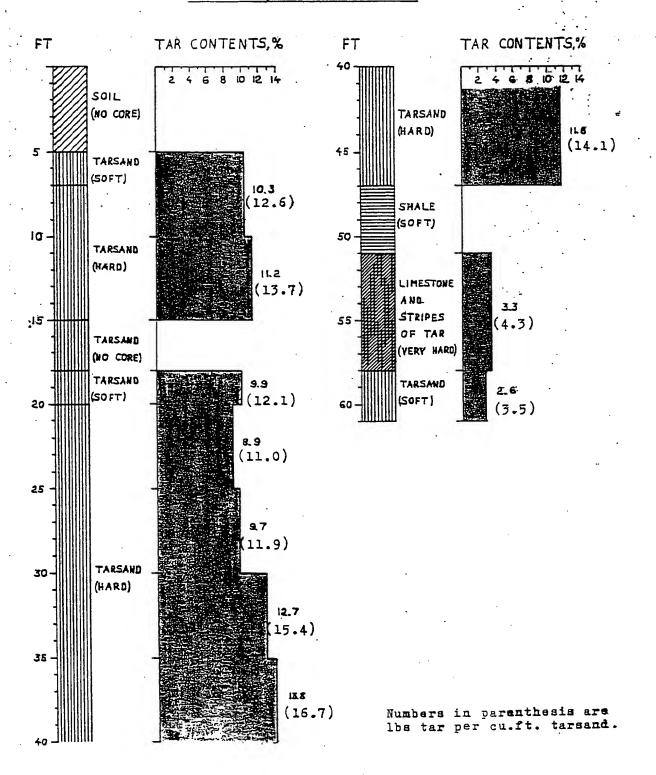
WELL LOG. 121W/40 N. (B2-5).



L9-201. AUG 30.1957: &F

Figure 3

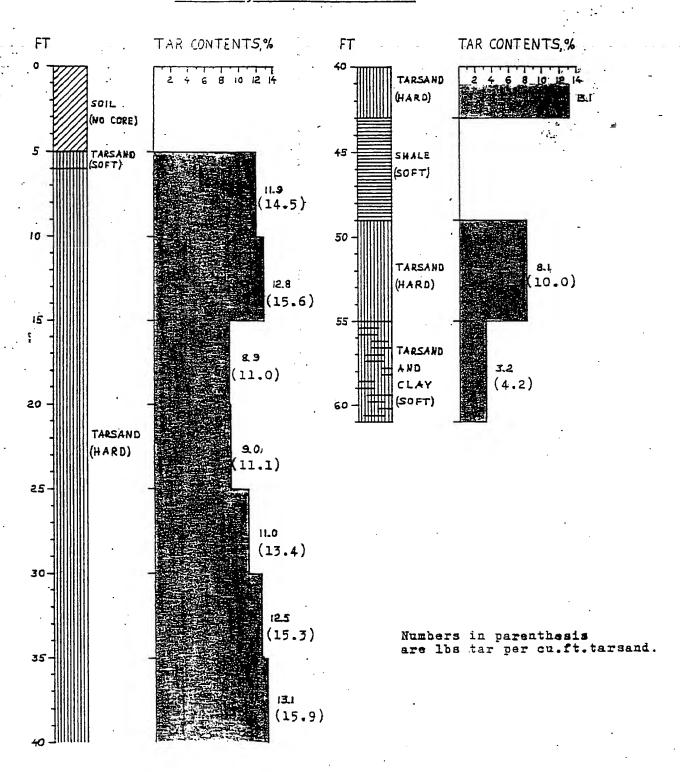
<u>WELL LOG.</u> 129 W/5 N. (B3-2)



L9-202. AUG.30.1957. &&

Figure 4

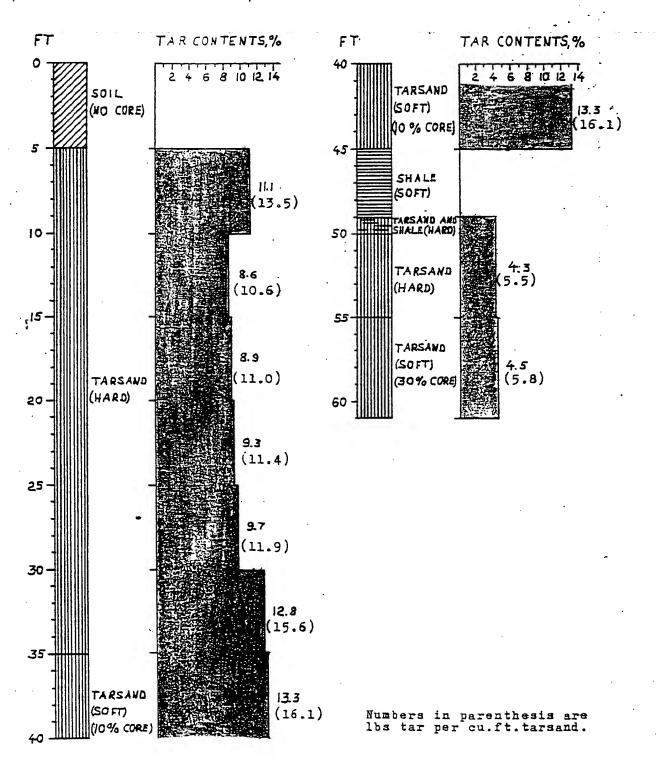
<u>WELL LOG.</u> 129 W/75 N. (B3-9)



L9-203. AUG.30.1957.89

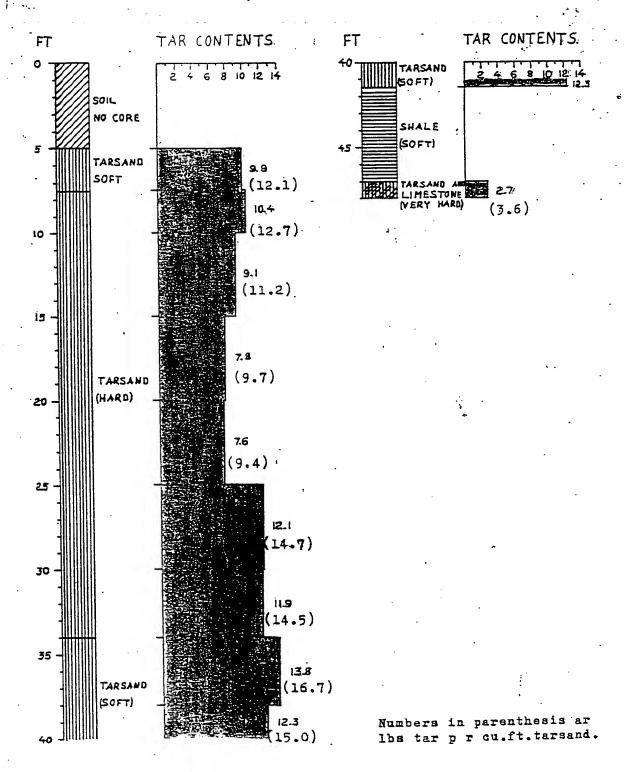
Figure 5

WELL LOG 138 W/40 N. (B4-5.)



L9-212 OCT 18.1957.88

<u>WELL LOG.</u> 147 **W/45 N. (B5-6)**



----L9-204 Figure 7 162W/O. FT TAR CONTENTS, % TAR CONTENTS, % FŤ 40 2 4 6 8 10 12 14 TARSAND (HARD) SOIL (NO CORE) SHALE A. CLAY TARSAND (SOFT. 10 % CORE REC.) 50 (10 % CORE 10.4 RECOVERED) (12.7)TARSAND A. LIMESTONE (HARD) 55 (9.5)NO CORE LIMESTONE A. TARSAUD. (7.1)20 -NO CORE TARSANDA CLAY 5, 3 (25 % CORE RECOVERED) (6.7) TARSAND A LIME_ (HARD) 10.7 (13.1)125 (15.3) TARSAND T (HARD) 14.6 (17.7)

(16.5)

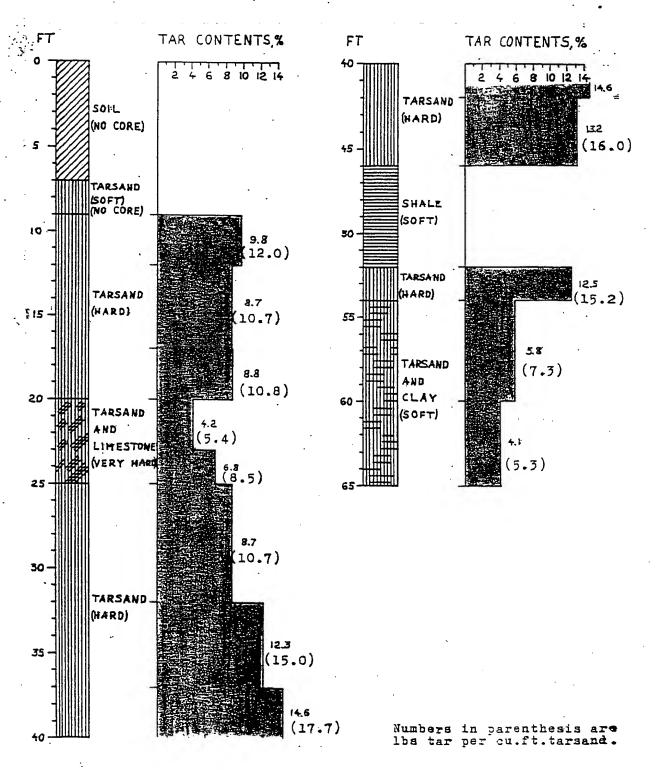
Numbers in parenthesis

are lbs tar per cu.ft.

tarsand.

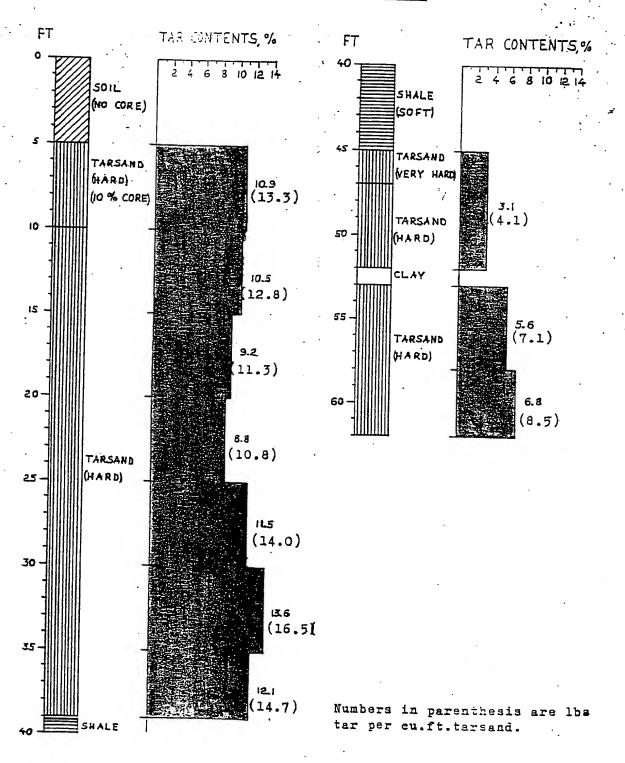
L9-205 OCT.18.1957.&&

WELL LOG. 155 W/10 N. (B6-2.)



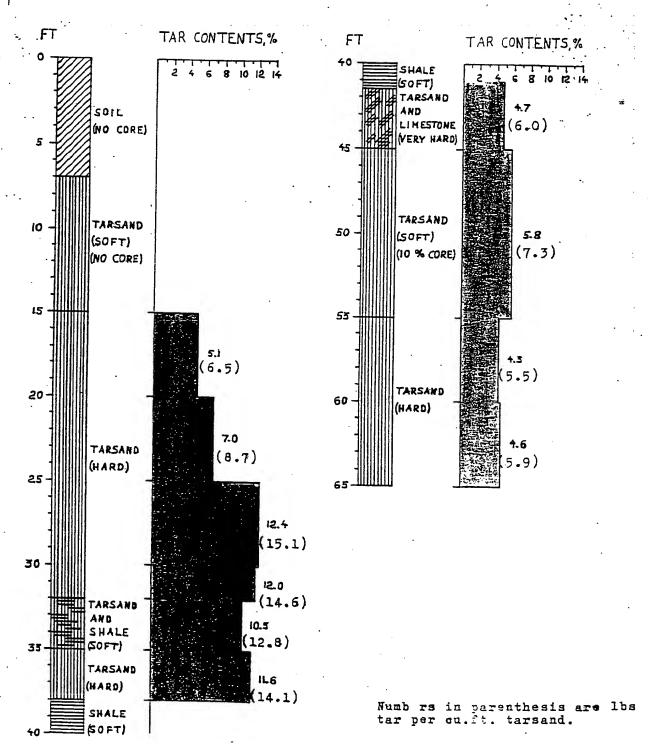
L9-206. AUG.30.1957. &&

<u>WELL LOG.</u> 155 W/80 N. (B6-9.)



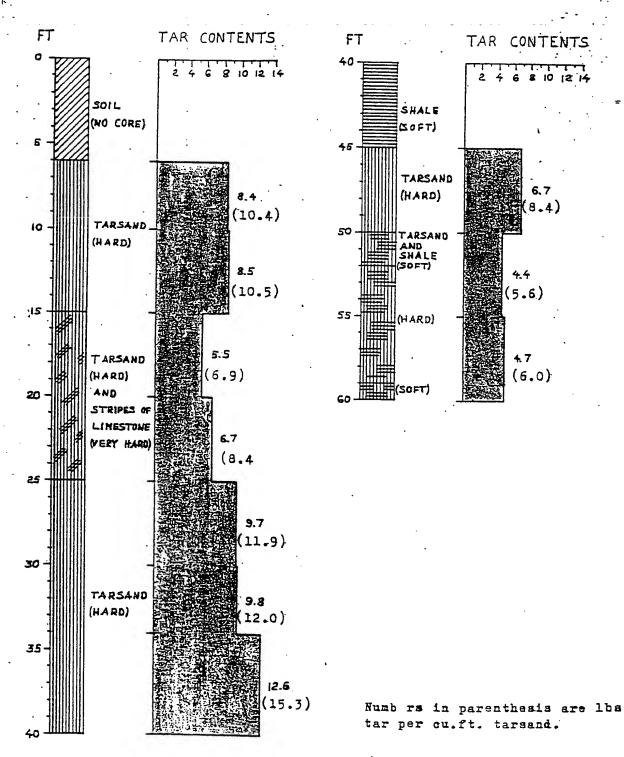
L9-207. AUG.30.1957.88

<u>WELL LOG.</u> 173 W/40 N. (B8-5)



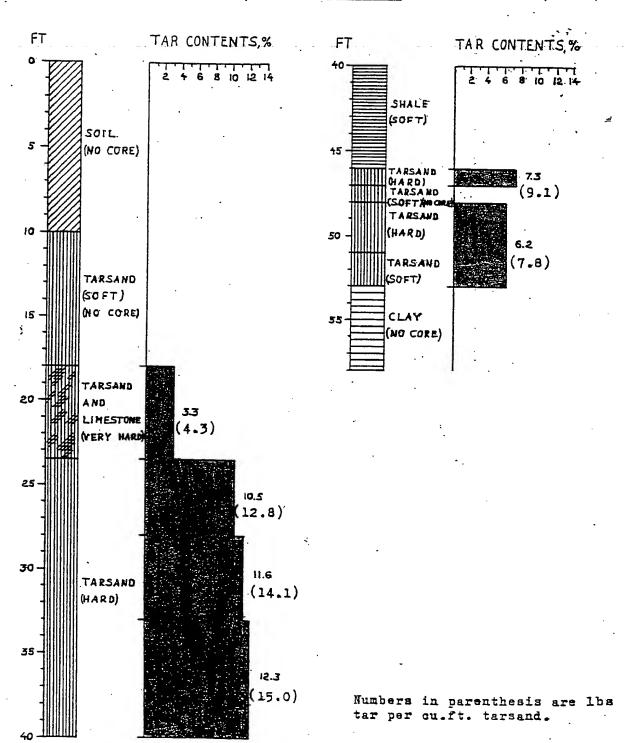
L9-211. OCT.18.1957: 28.

<u>WELL LOG.</u> 173 W/50 N. (B8-6)



L9-208. 0CT.18.1957.&P

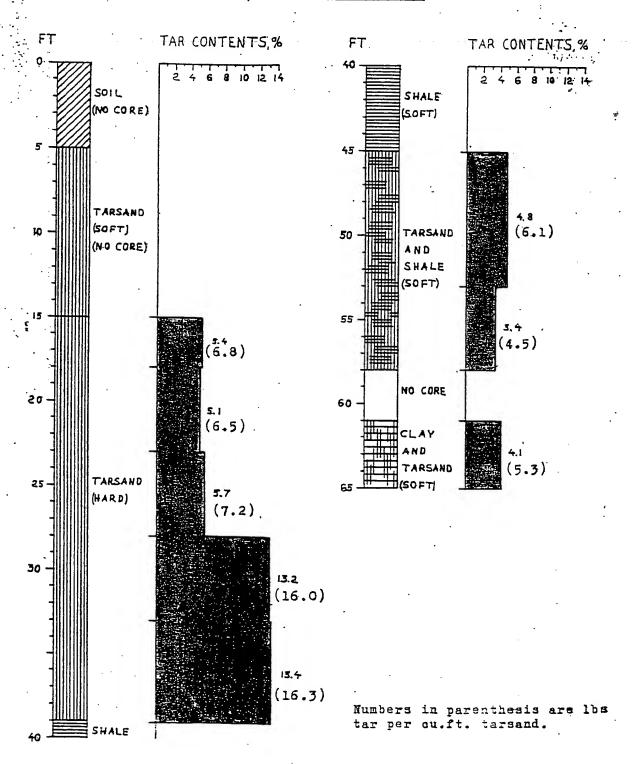
WELL LOG. 181 W/ 5 N. (B9-2)

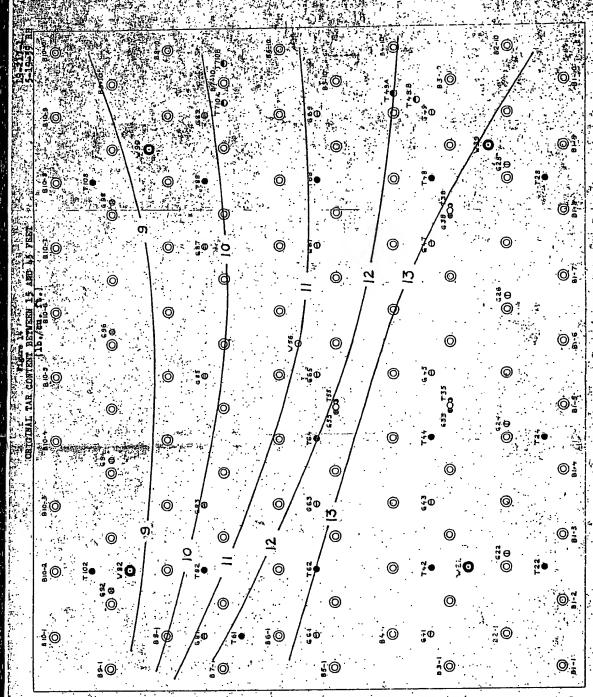


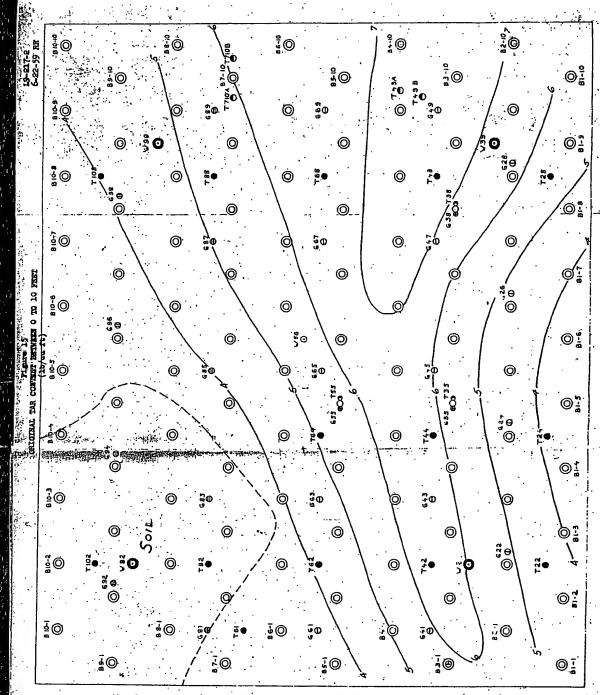
L9-209 OCT.18.1957. & P.

Figure 13

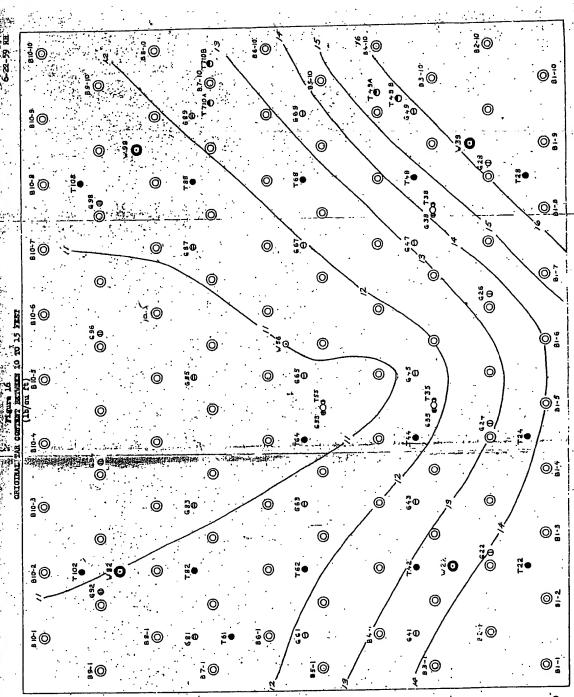
<u>WELL LOG</u> 181 W/75 N. (B9-9)







TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55' 334" HOLE, 52' 2' CASING.



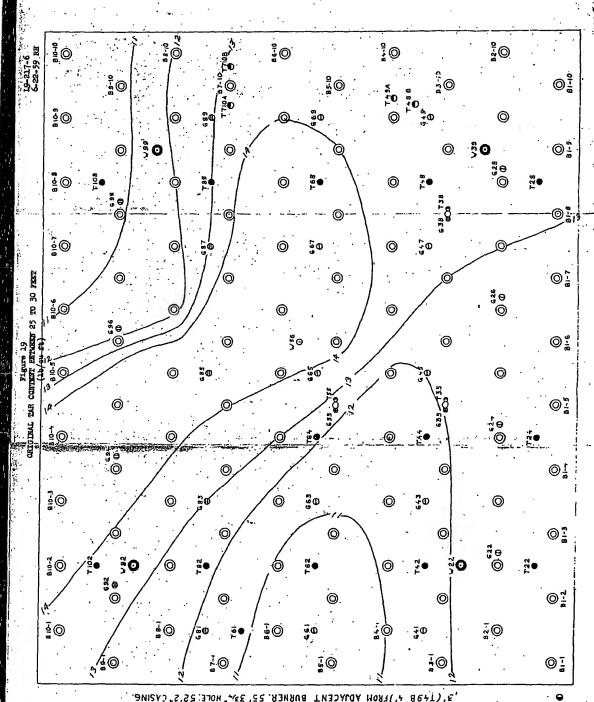
■ TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55' 33," HOLE, 52'2" CASING.

TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55' 33," HOLE, 52' 2" CASING.

■ TEMPERATURE VELL, 5°9" FROM ADJACENT BURNER, 55" 334" HOLE: 52'2" CASING.

TEMPERATURE VELL, 5°9" FROM ADJACENT BURNER, 55" 334" HOLE: 52'2" CASING.

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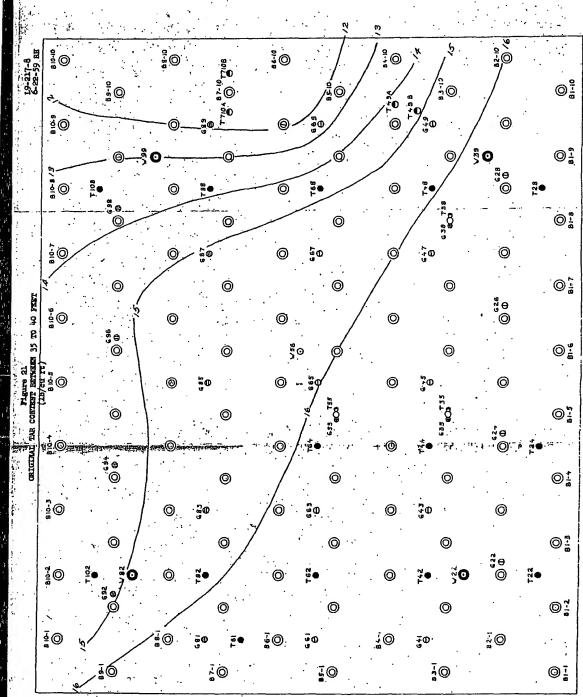


■ TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 3*," HOLE: 52'2" CASING.

■ TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 3*," HOLE: 52'2" CASING.

334" HOLE, 52'2" CASING.

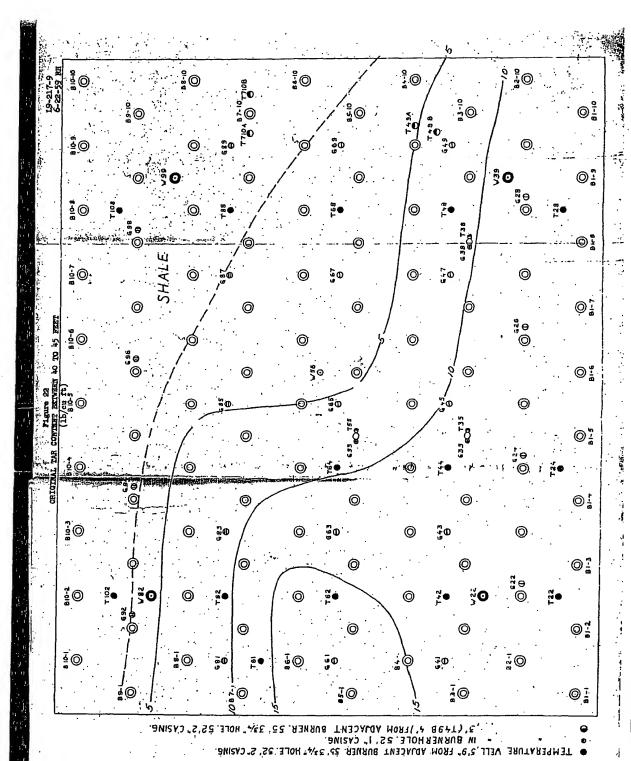
◆ Ya, (1+68 +,) LBOH VDTYCENT BUBNEB 22, 23% HOFE 3, 1. CYZING 4, LBOH VDTYCENT BUBNEB 22, 33% HOFE 25, 5. CYZING 4. LBOH VDTYCENT BUBNEB 22, 33% HOFE 25, 5. CYZING

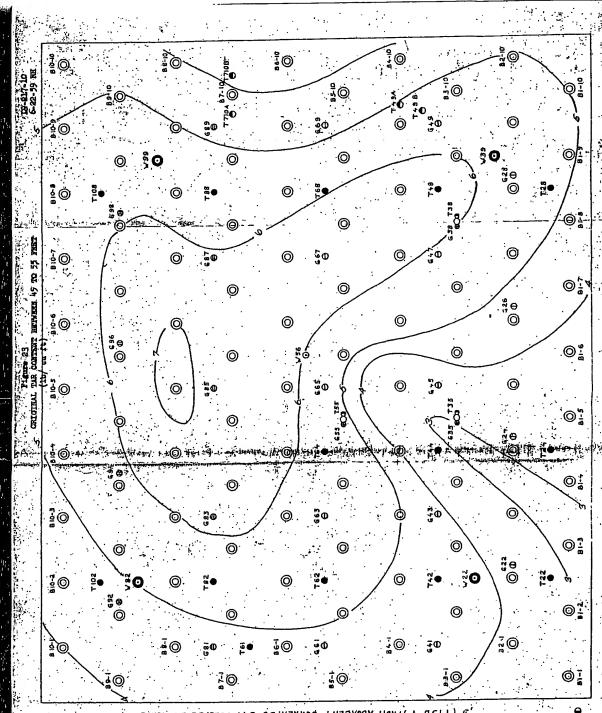


■ TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER, 55' 33," HOLE, 52' 2" CASING.

, M BURNER HOLE, 52' 1" CASING.

, 3' (T198 4') FROM ADJACENT BURNER, 55' 33," HOLE, 52' 2" CASING.





■ TEMPERATURE VELL 5'9" FROM ADJACENT BURNER, 55" 3%" HOLE, 52" CASING.

■ N. BURNERHOLE, 52" 1" CASING.

■ A. (T+9B +') FROM ADJACENT BURNER, 55" 3%" HOLE, 52" CASING.

REVISED 3.15.58.AP 38.828115.NAL

PATTERN OE

O " S, ERON ADJACENT BURNER, 20' 334" HOLE, 15' 18' CASING.

O CONCENTRIC GASVELL IN BURNERHOLE, 15' 18' CASING.

O CONCENTRIC GASVELL AROUND BURNER, 13' 450" 428" CASING.

O BURNER, 15' 55%" AND 40' 434" HOLE. 52' 2'8" CASING.

20, 334, HOTE EIFTED MITH GRAYEL TO 15, 1% CASING. , 2

● CONCENTRIC GASVELL AROUND WATER VELL, 15' tso"> test so's the case to's to and 10' t' tubing.

O WATER VELL,5'9' FROM ADJACENT BURNER, 55' 35,4" HOLE, 52' 2' CASING.

O WATER VELL,5'9' FROM ADJACENT BURNER, 55' 35,4" HOLE, 52' 2' CASING.

O WATER VELL,5'9' FROM ADJACENT BURNER, 55' 35,4" HOLE, 52' 2' CASING.

O CONCENTRIC GASVELL AROUND WATER VELL, 15' tso"> test so's tso's tso'

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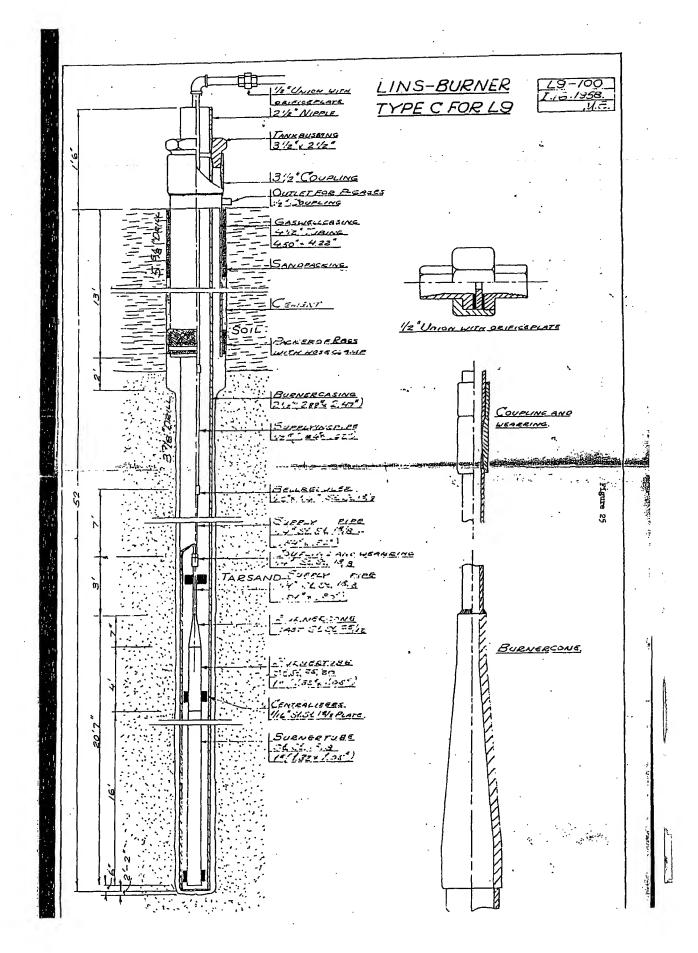
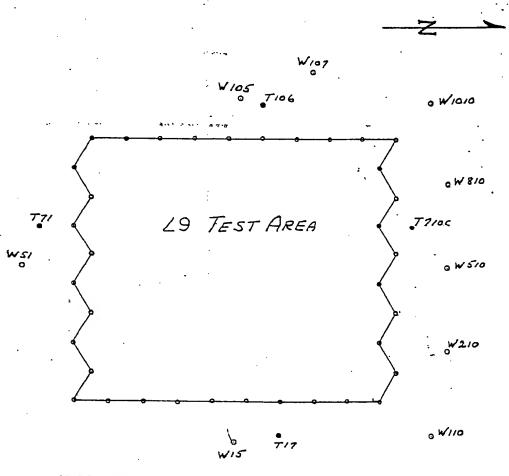


Figure 27

WATER WELLS AND TEMPERATURE WELLS OUTSIDE 19.



Well, No.

11, 110.

| W15,105 |
|-----------------|
| W51,105,110,210 |
| W510,810,1010 |
| W107 |
| T17 |
| T7 1 |
| T710C |
| T106 |

Locations

| 12 | feet | outside | the | edge | of | the | field. |
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| 10 | 17 | π | B7- | | | | • |
| 10 | 17 | π . | B7- | 10 | | | |
| 10 | π | · 11 | Bio. | -6 | | | |

L 9-102 JAN 24 1958.8P

F-, P- AND R- LINES OF TEST L9.

F-LINE, 3." = P-LINE, 1."

F-LINE, 2." = R-LINE, 1."

P-LINE, '2." - 1/2" PIPE.

HOLE SYMBOLS ACCORDING TO L9-101.

| - | | | | | H | OLE SYMB | OLS | ACC | ORDING T | 0 L9-101. | | | | | | ţ | | | 71 |
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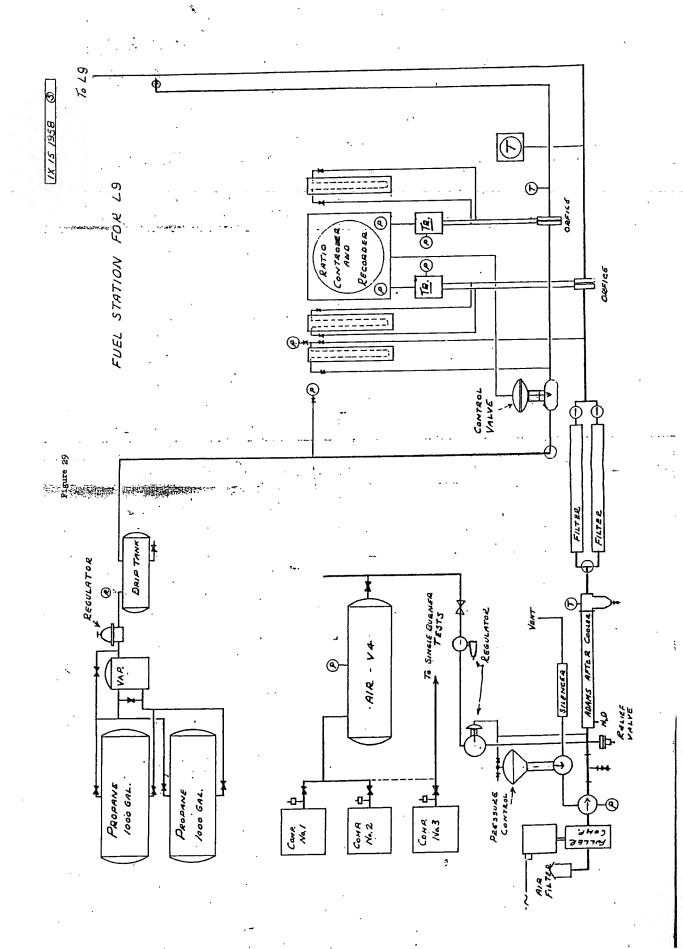
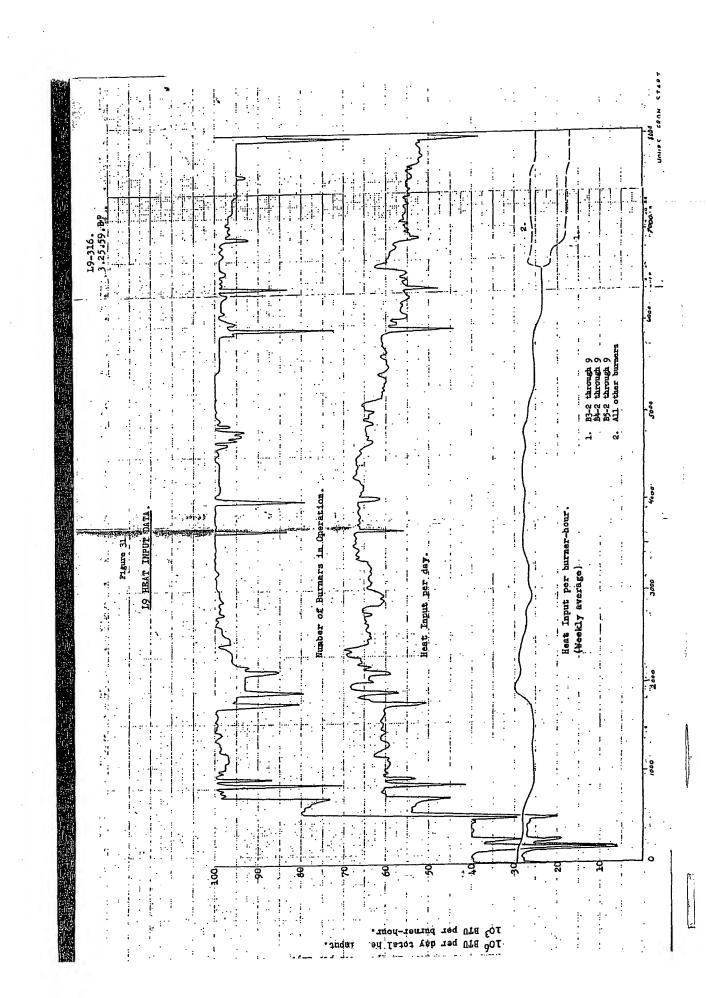
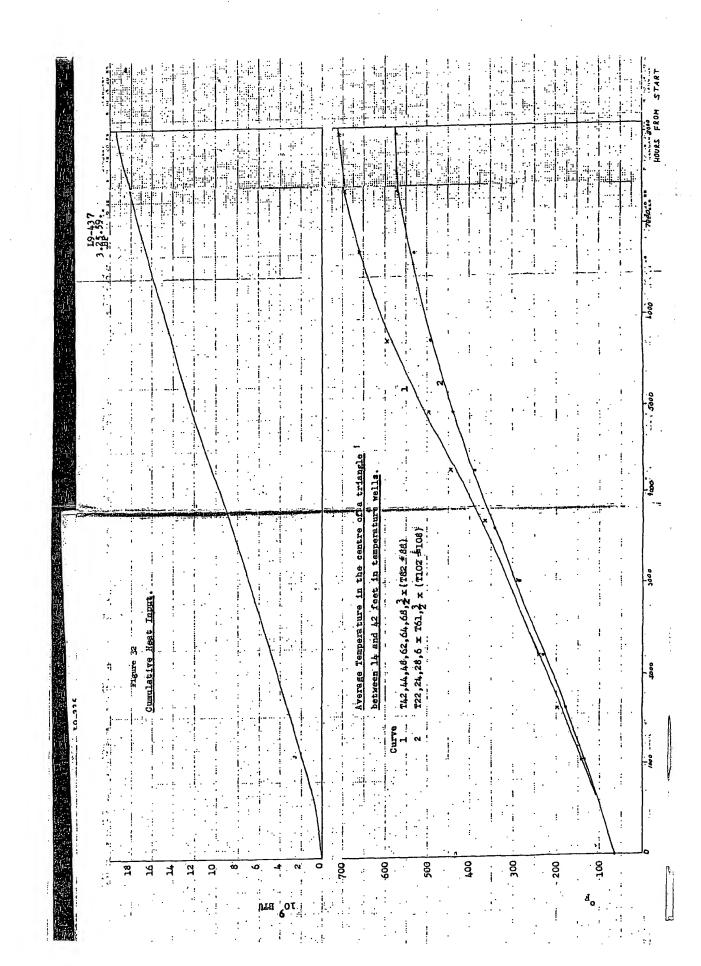
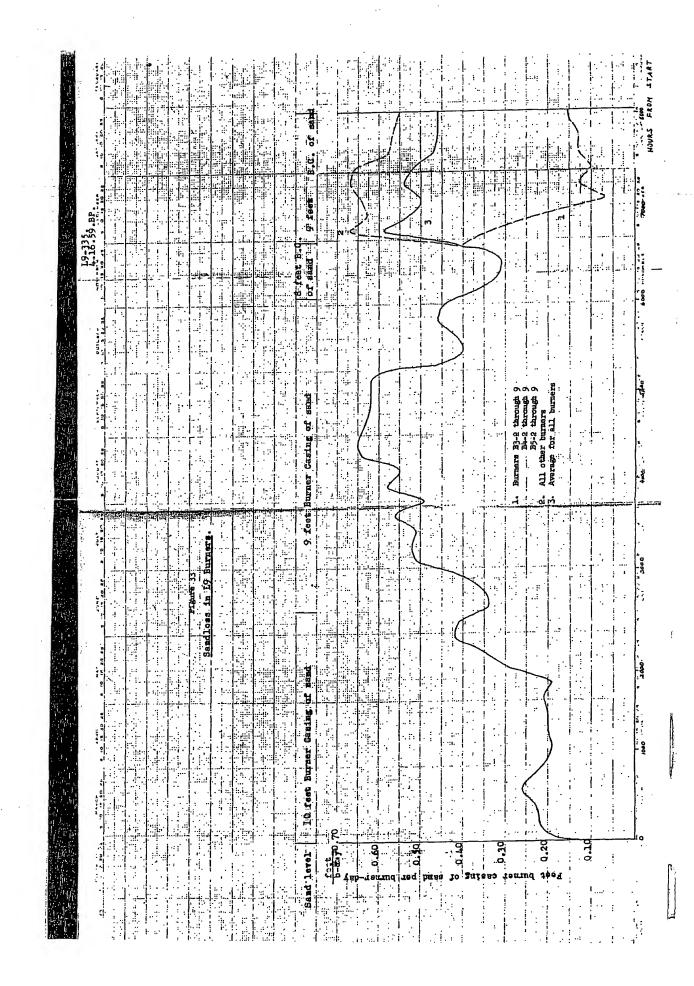
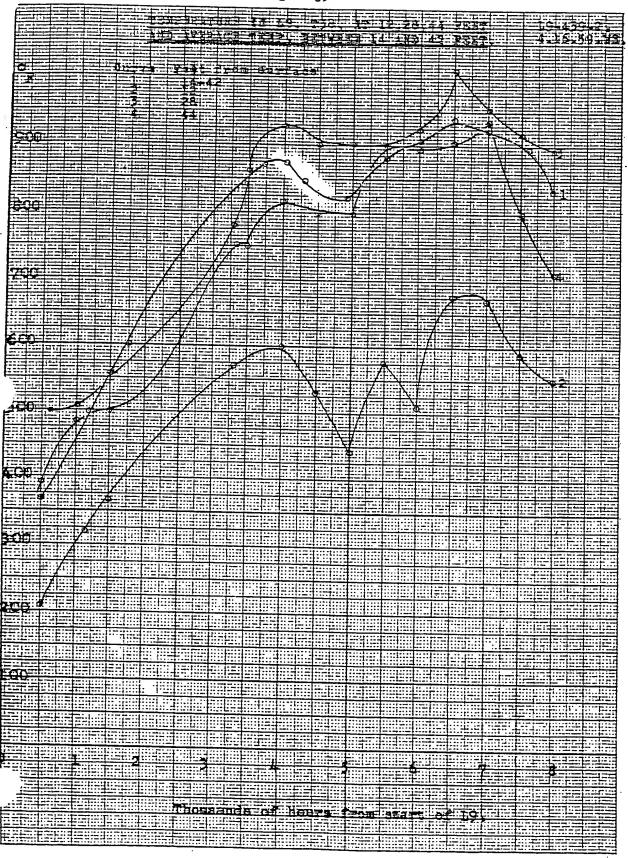


Figure 30 PRODUCTSTATION L8 - 110 10-16-1957 DATO TANKS SWEETGAS. TO TEST -A IA SHEET-NGR. SOUR - GAS TO FLARE 712 W RECORDER 3 2 643 PRODUCTS FROM LB TREPLINE









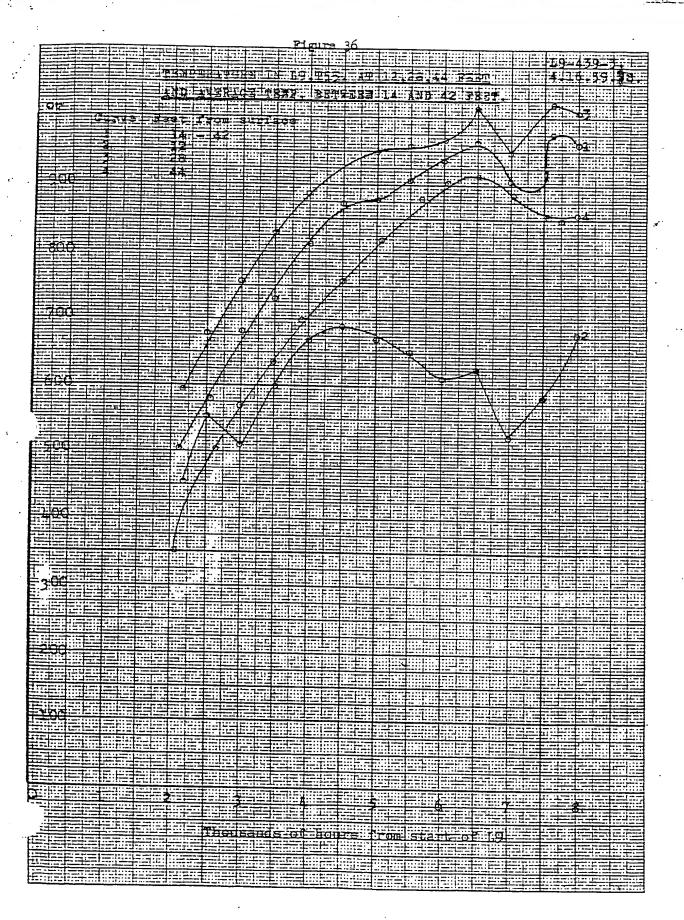


Figure 38 DIFFERENT SAND BEIGHTS CIRYELLATE HEAT WHIT FUR SAND FRENT AV BURNER STUMM FT B-CAS NG 95 200 ------10 25 dad 25 (50 -14 H 14.

Figure 42

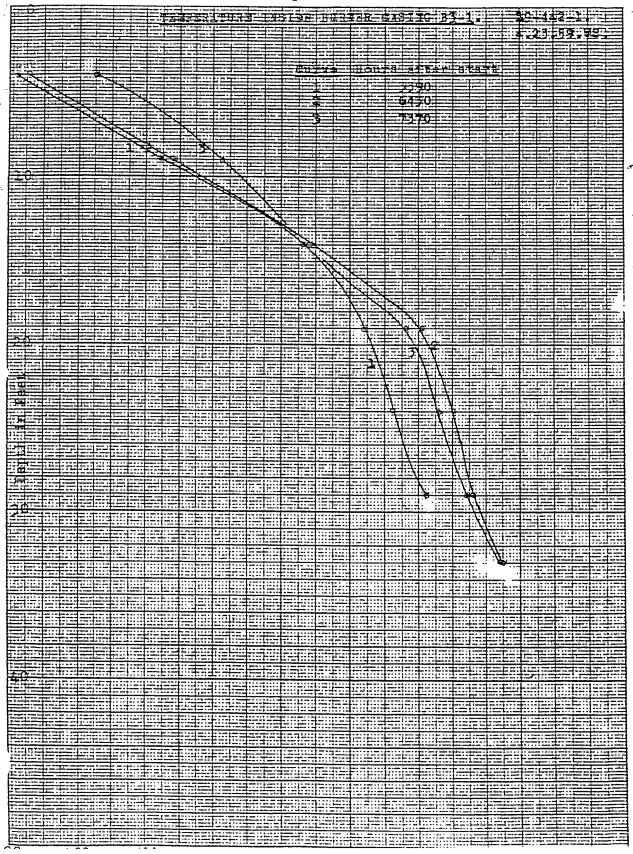
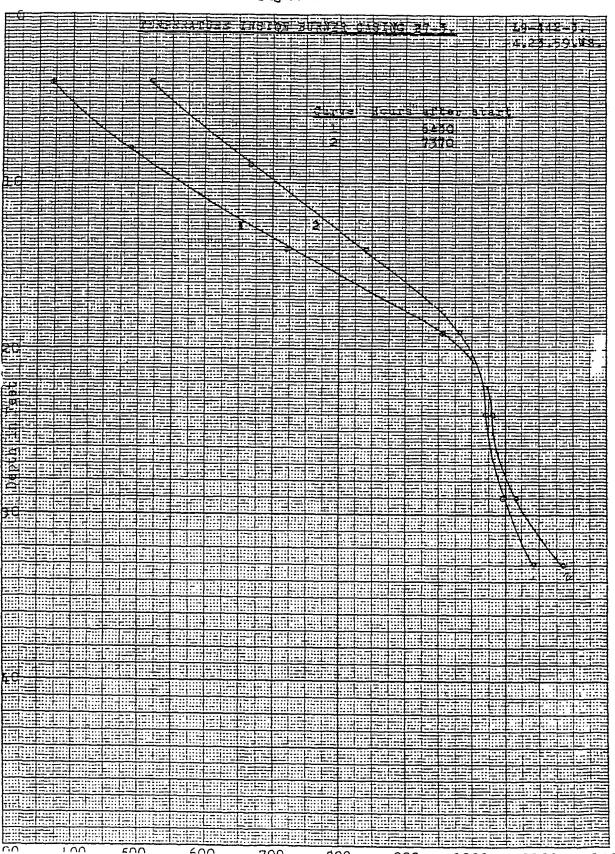
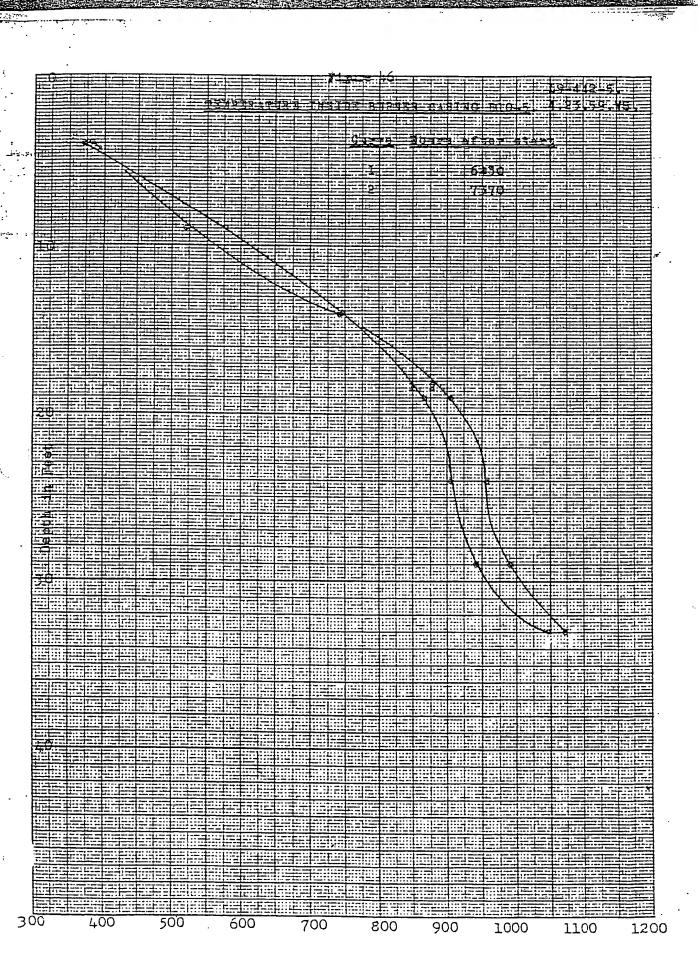


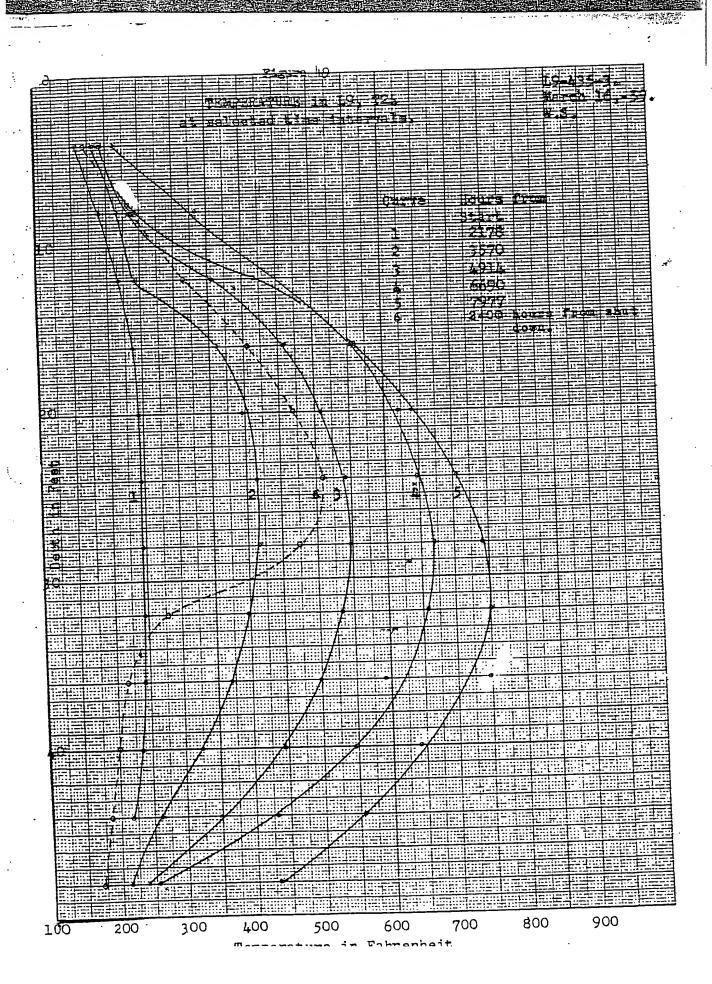
Figure 44

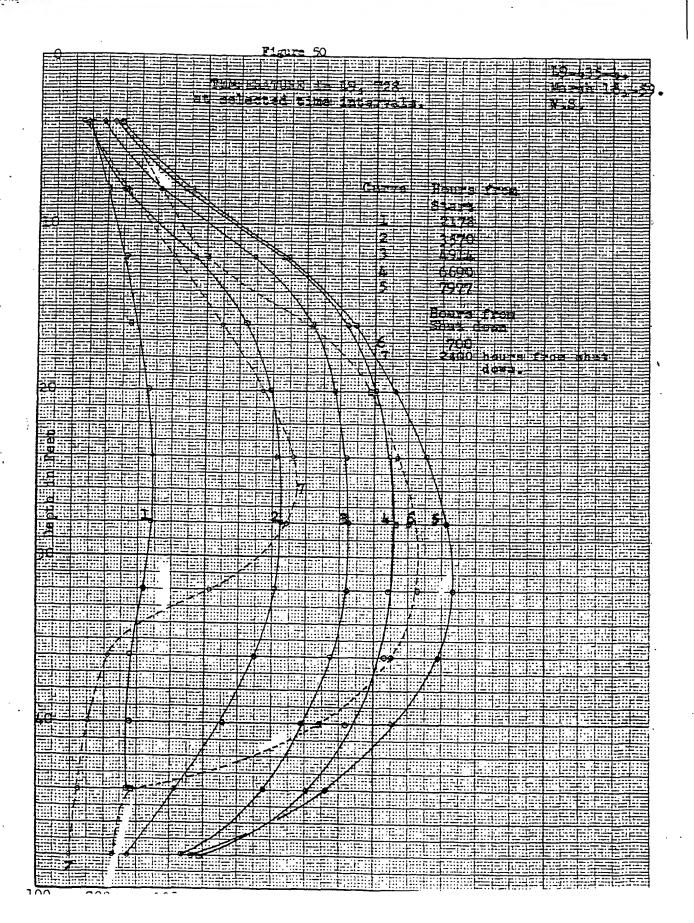


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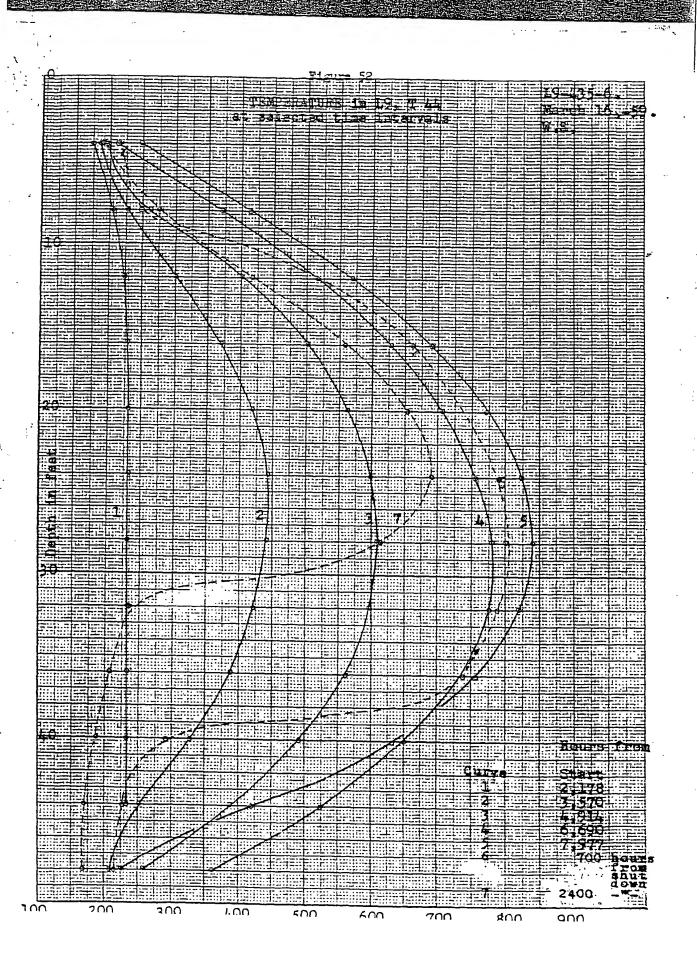


| Figure 47 | | | | | | | | | | | | | | | |
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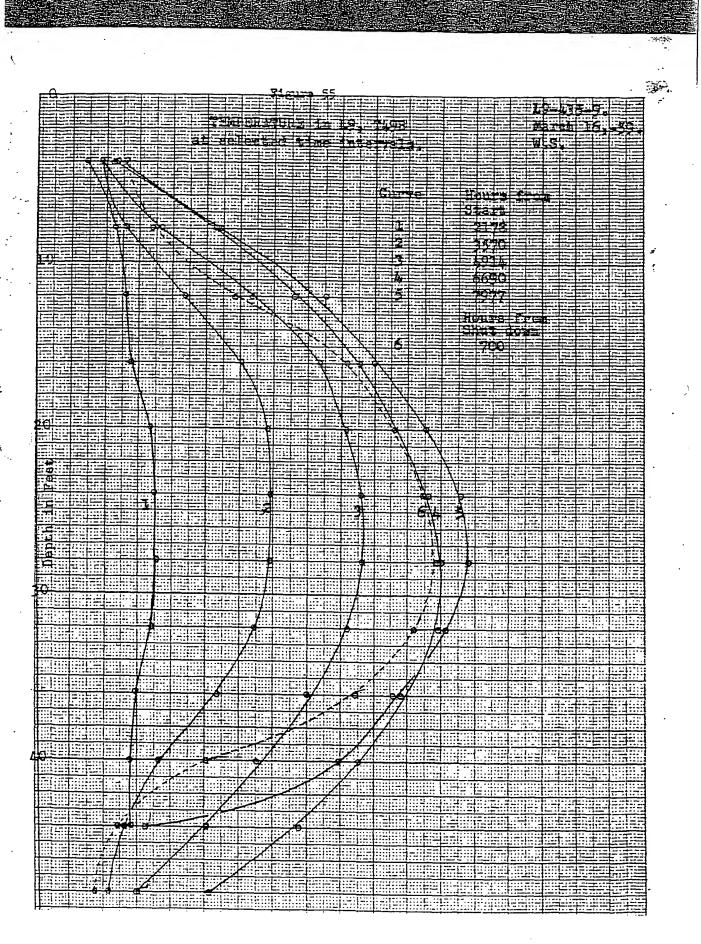


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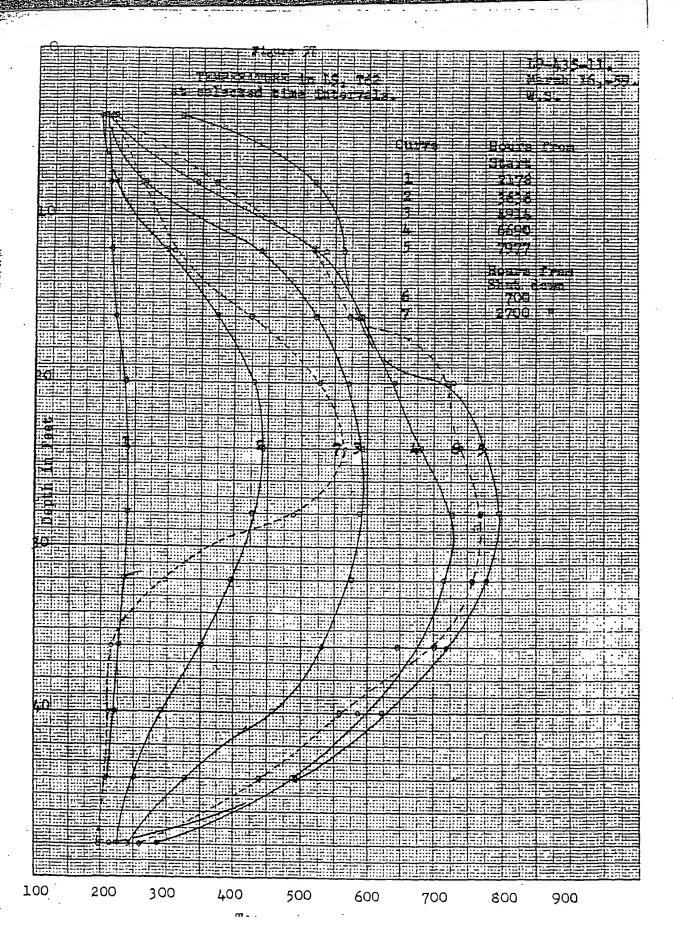
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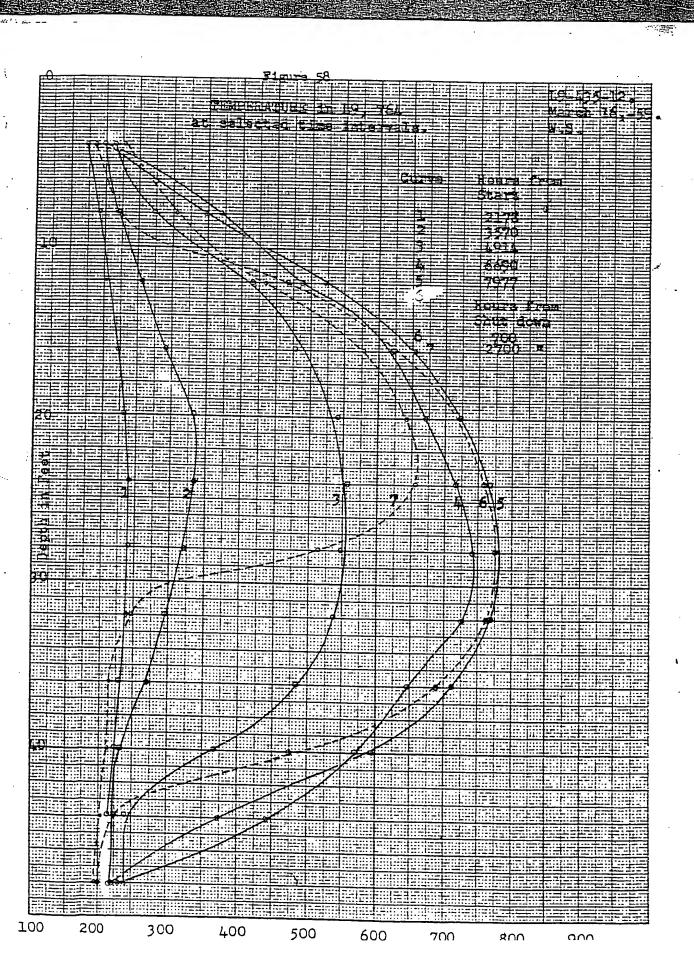
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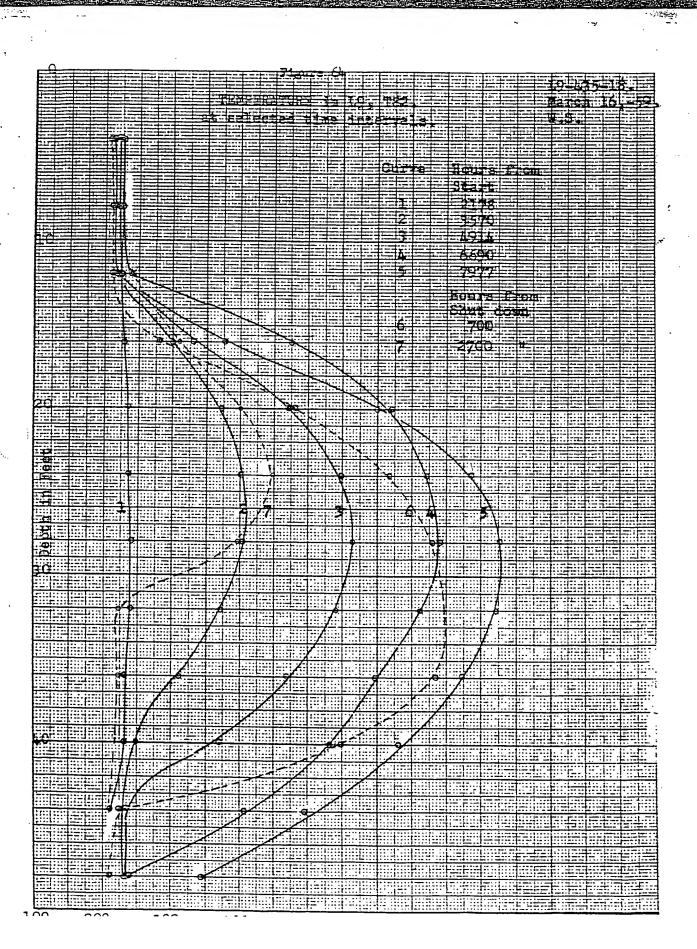
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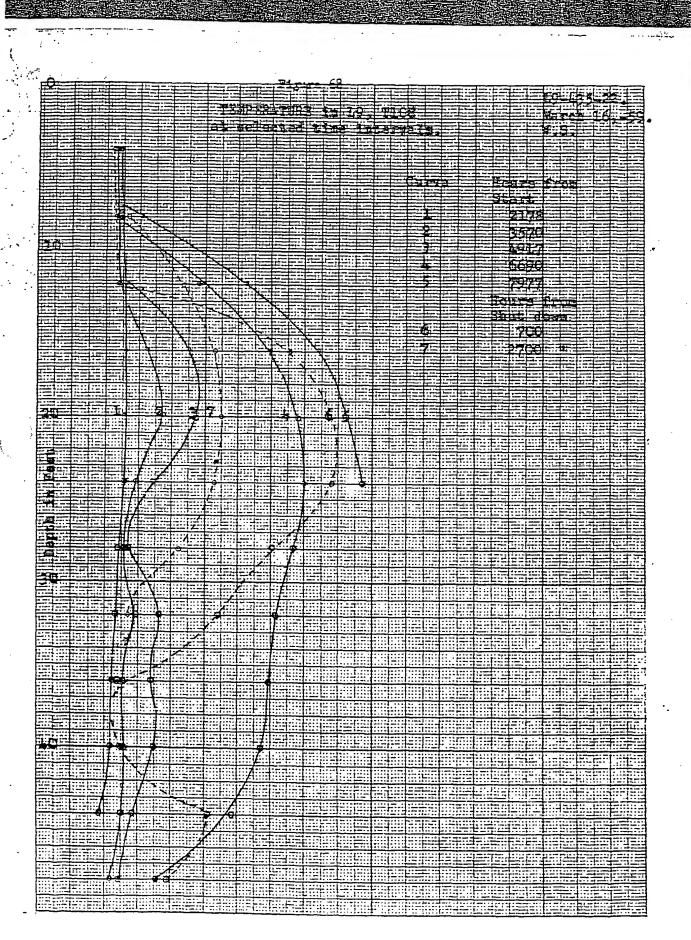
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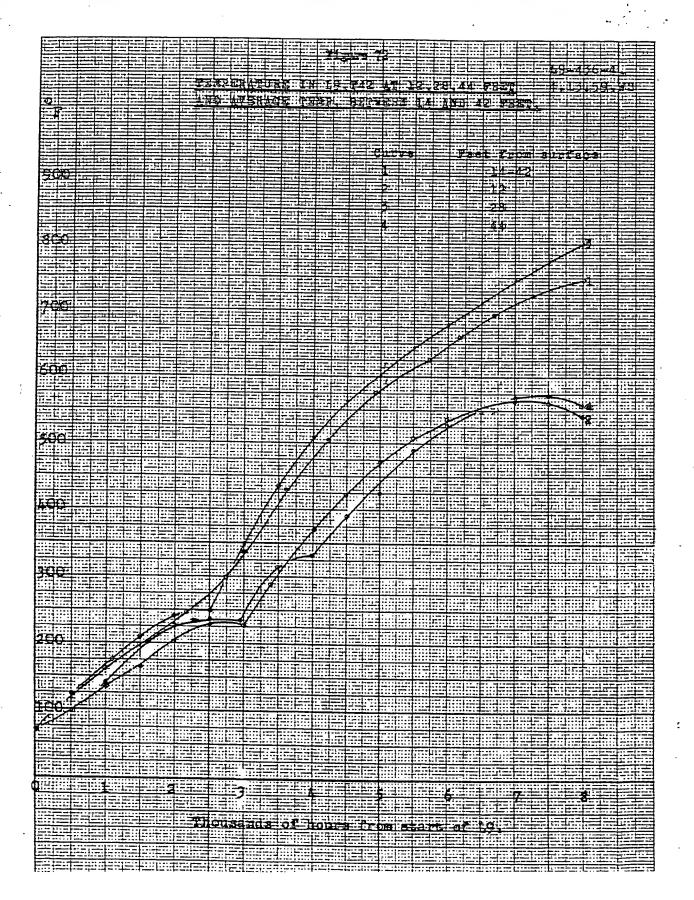


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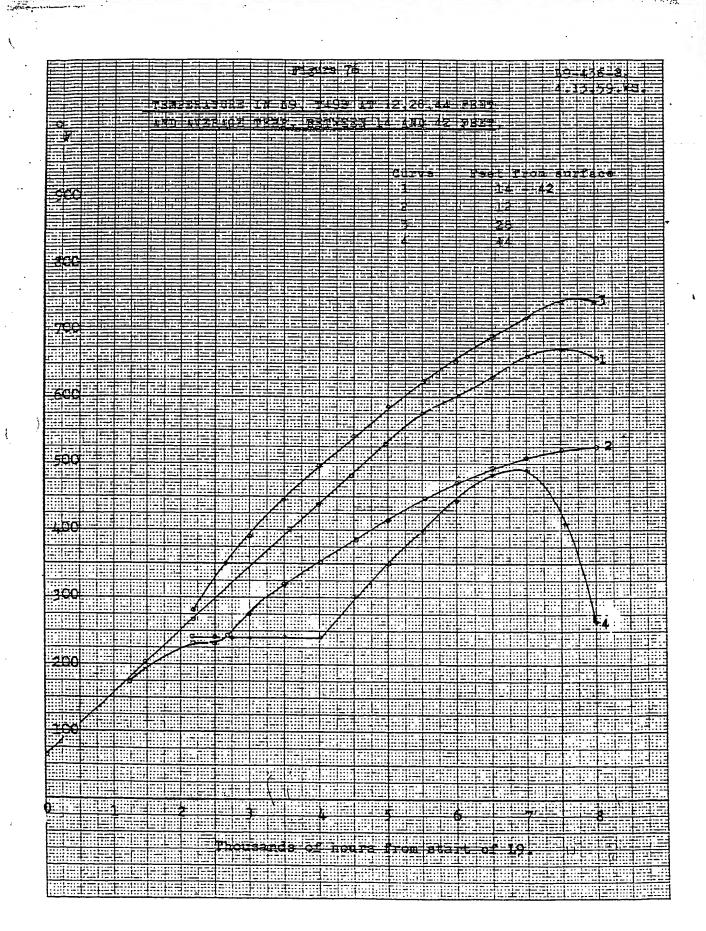
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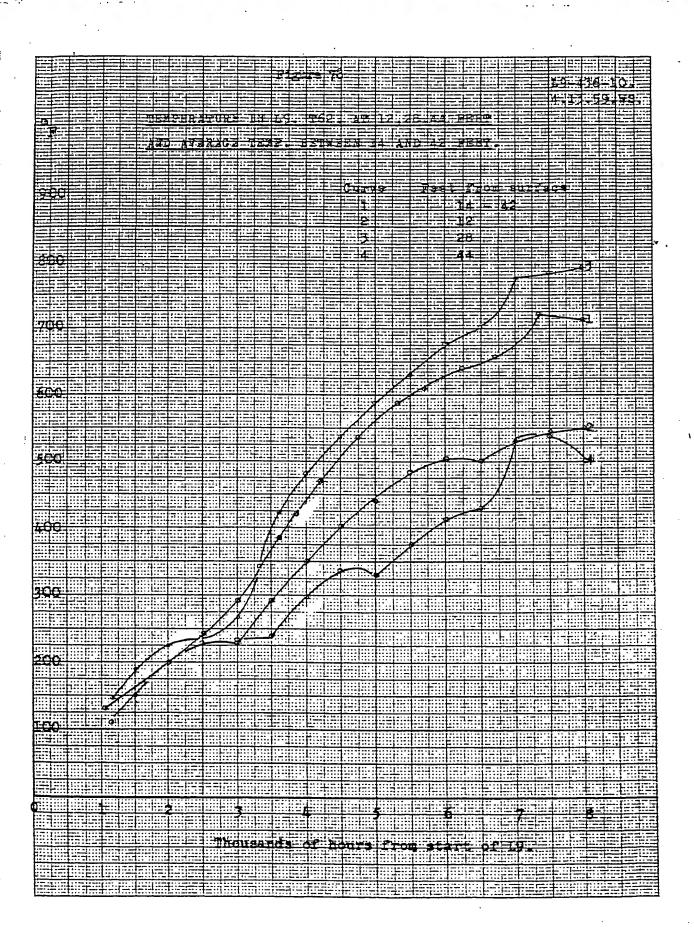
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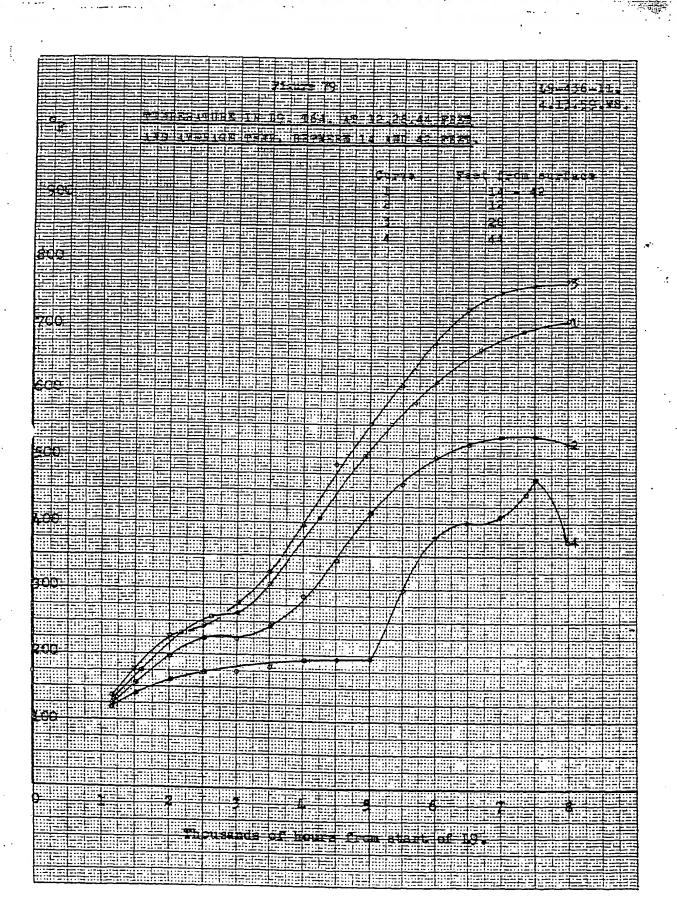
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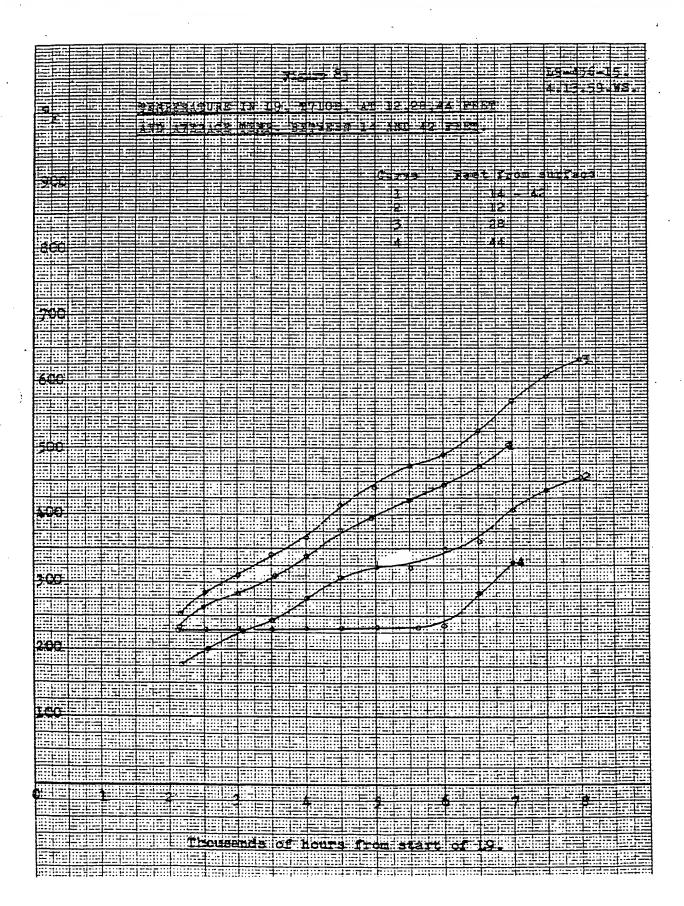
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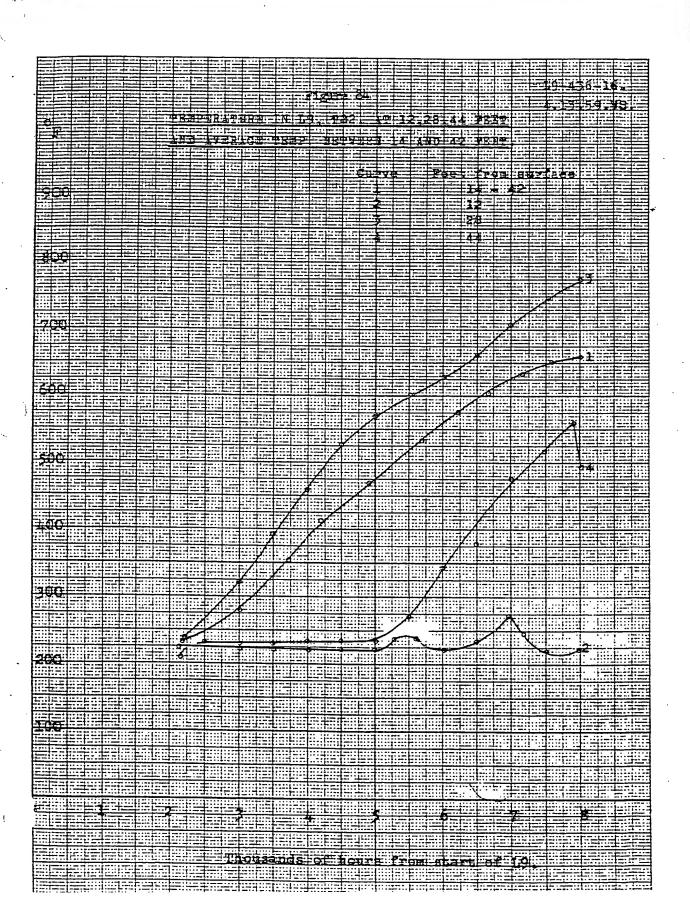
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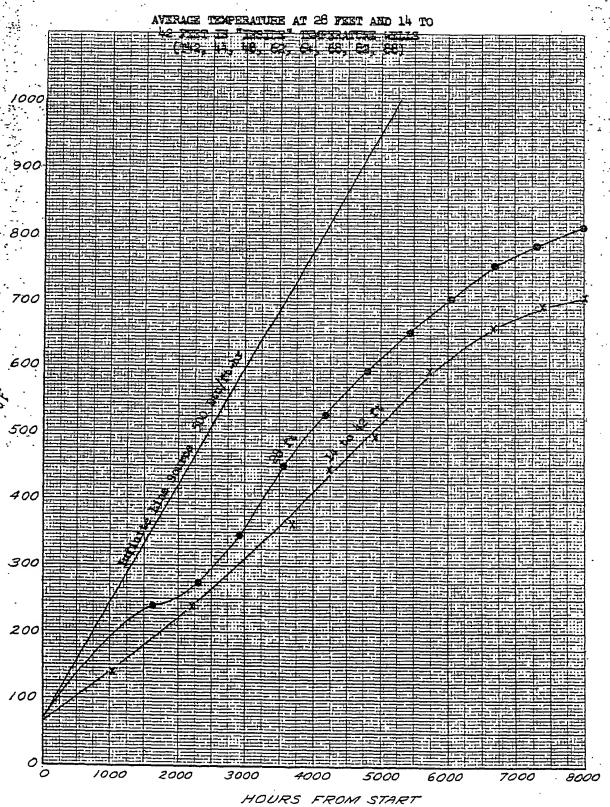
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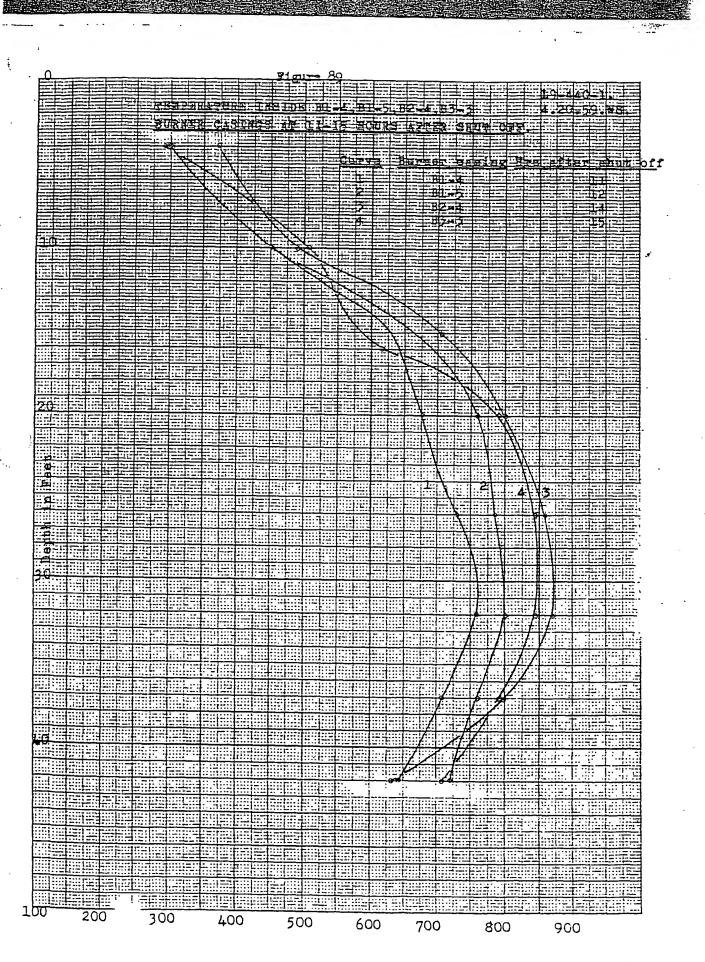
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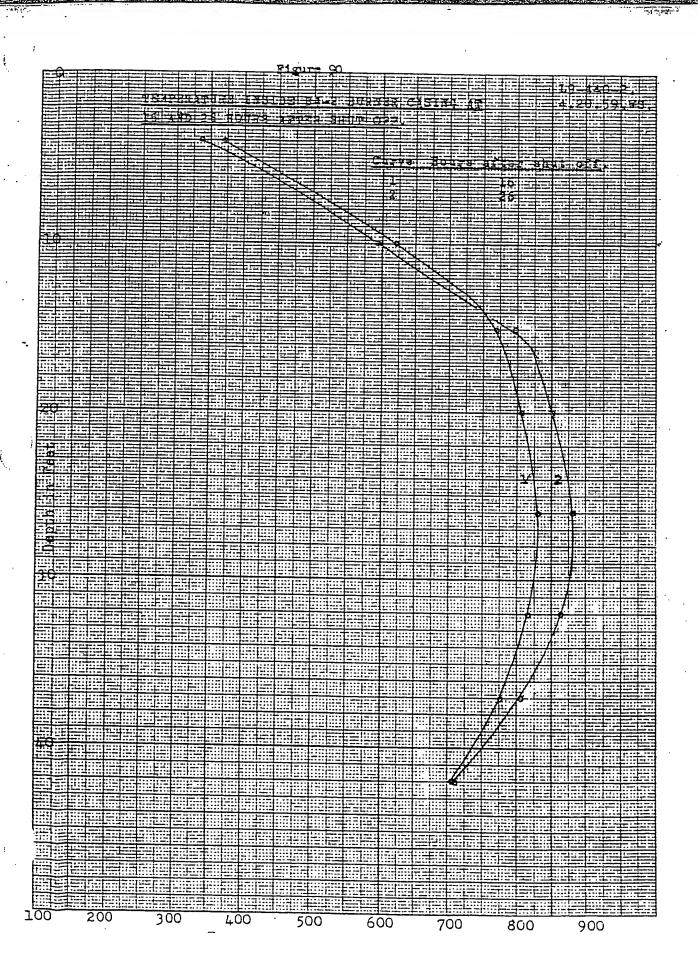
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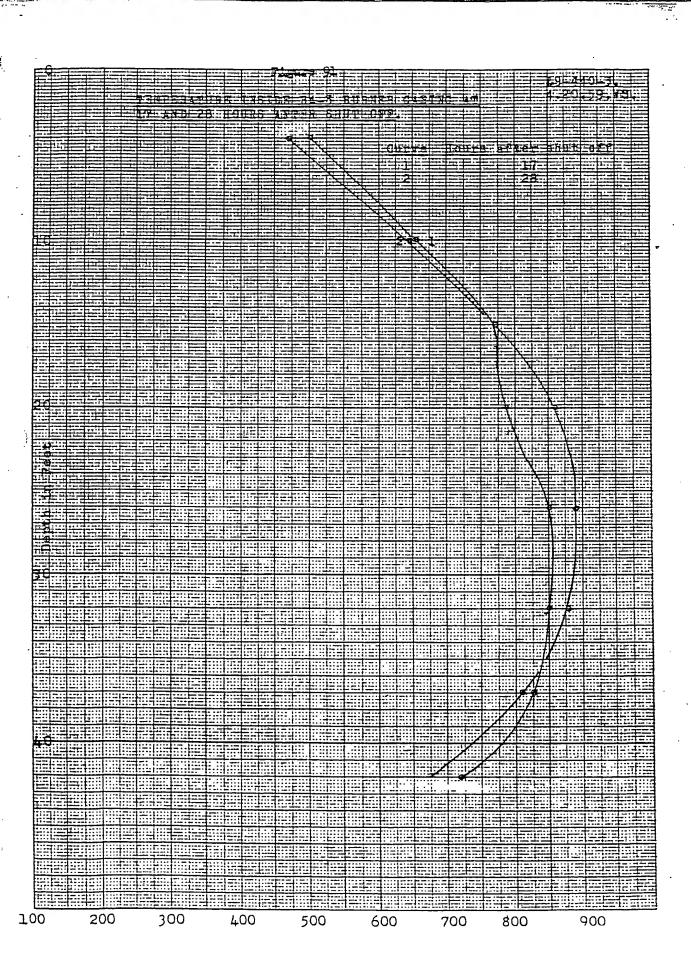
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Figure 88

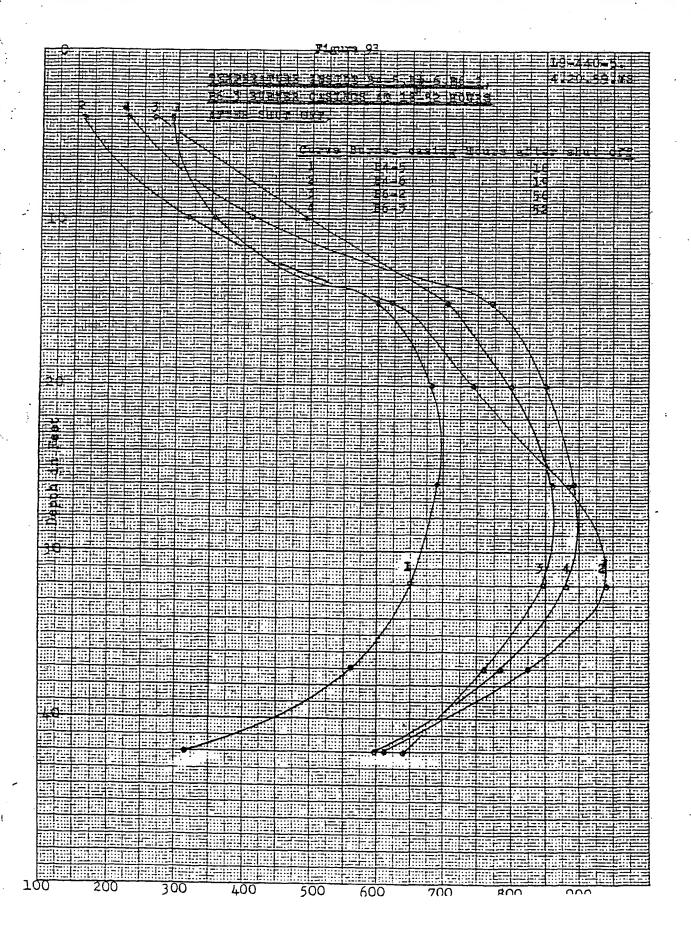


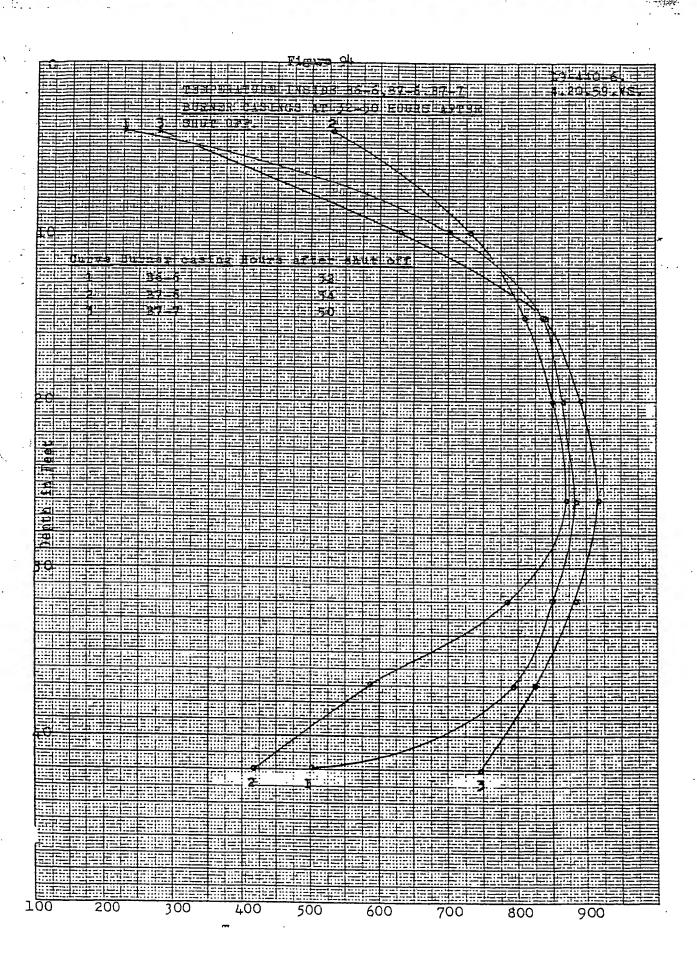


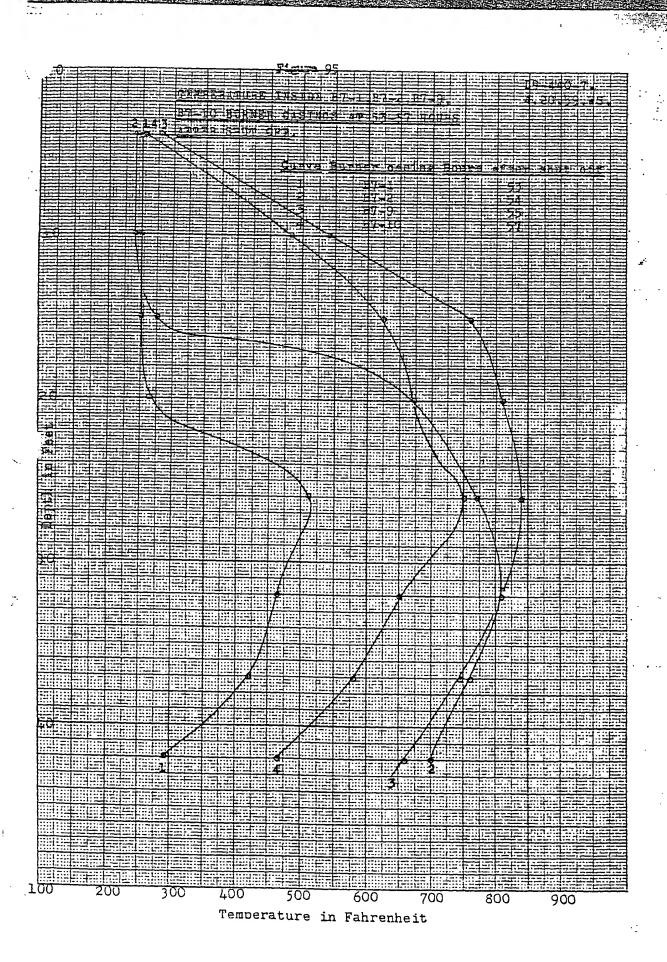




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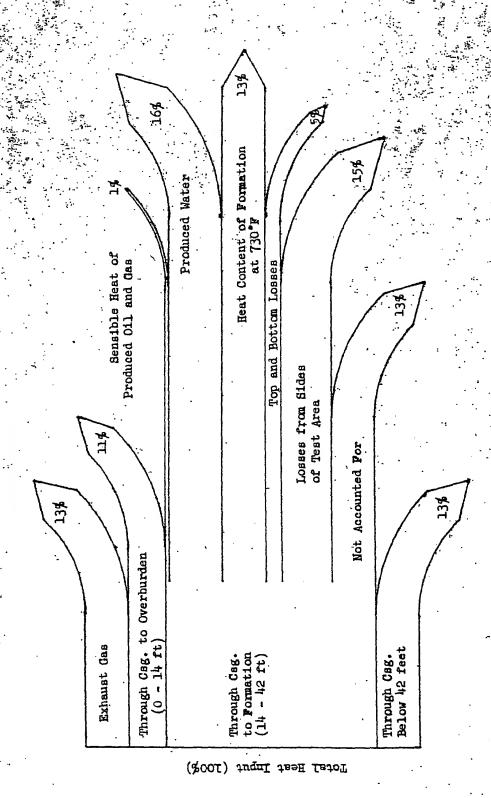
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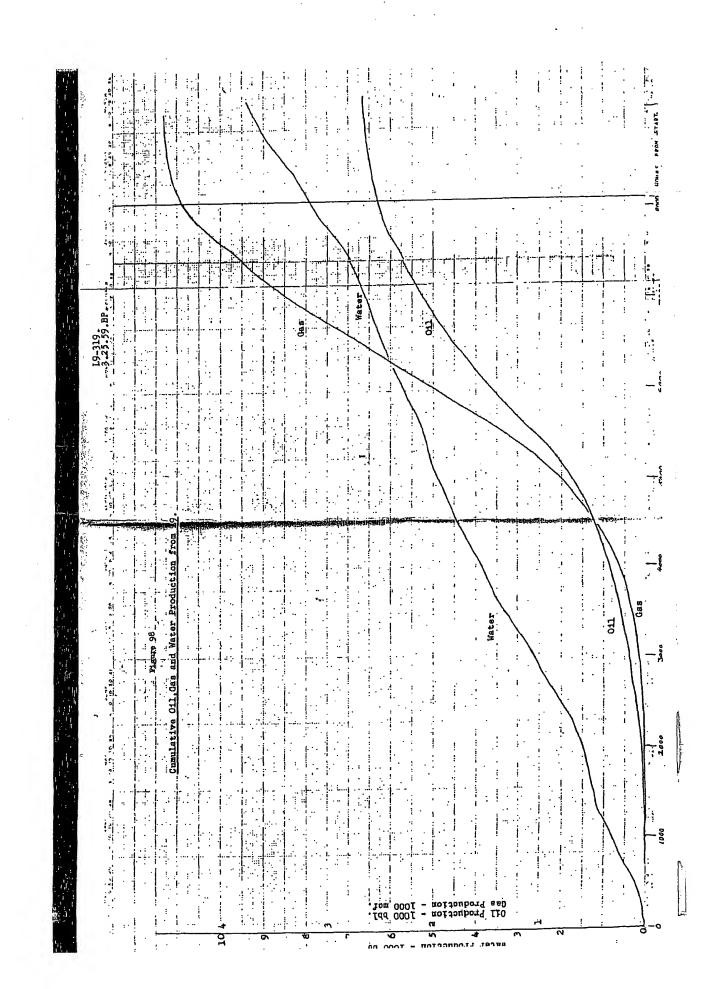
.

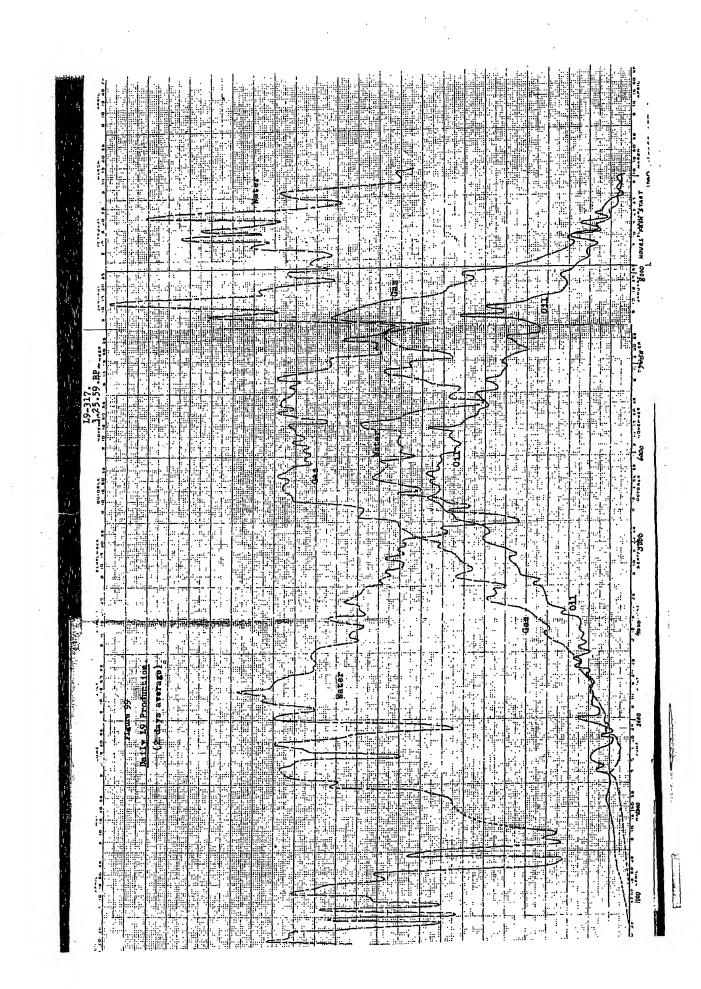
•

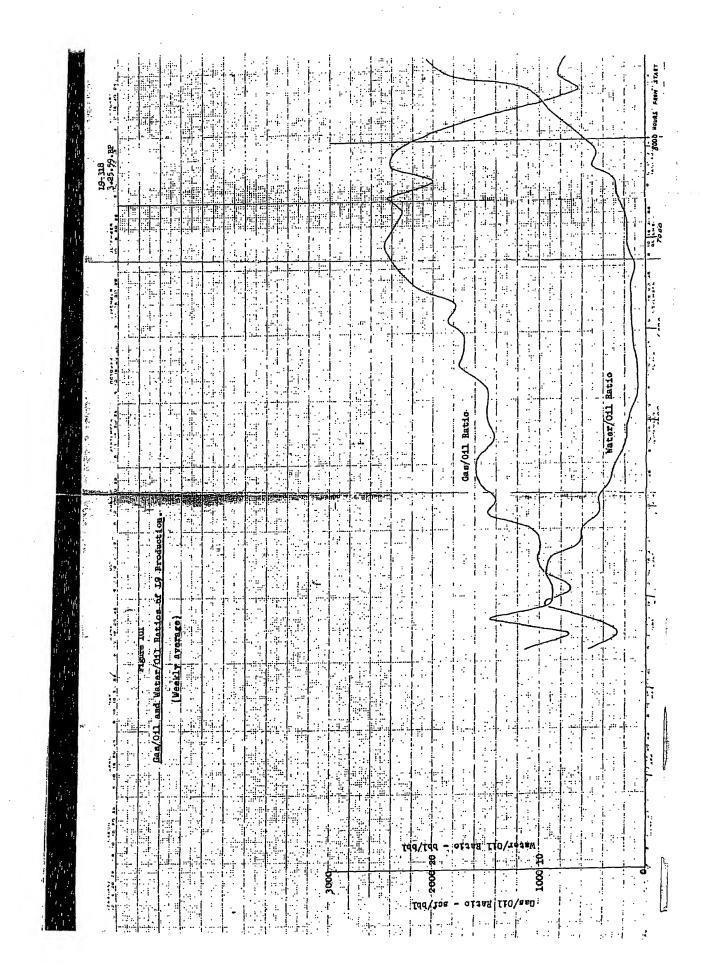
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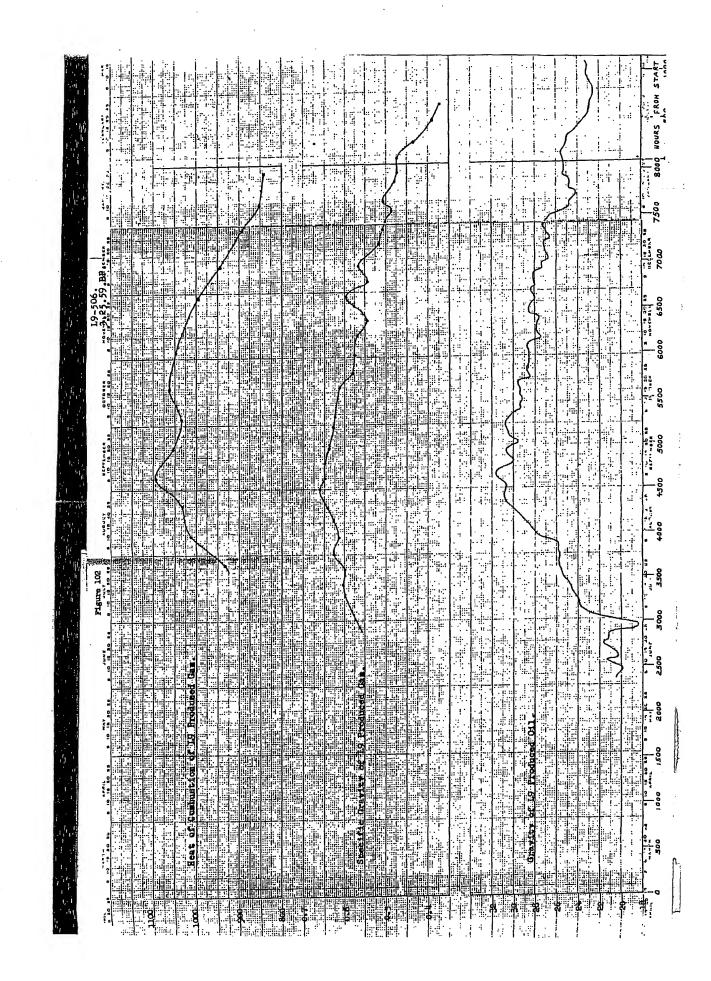
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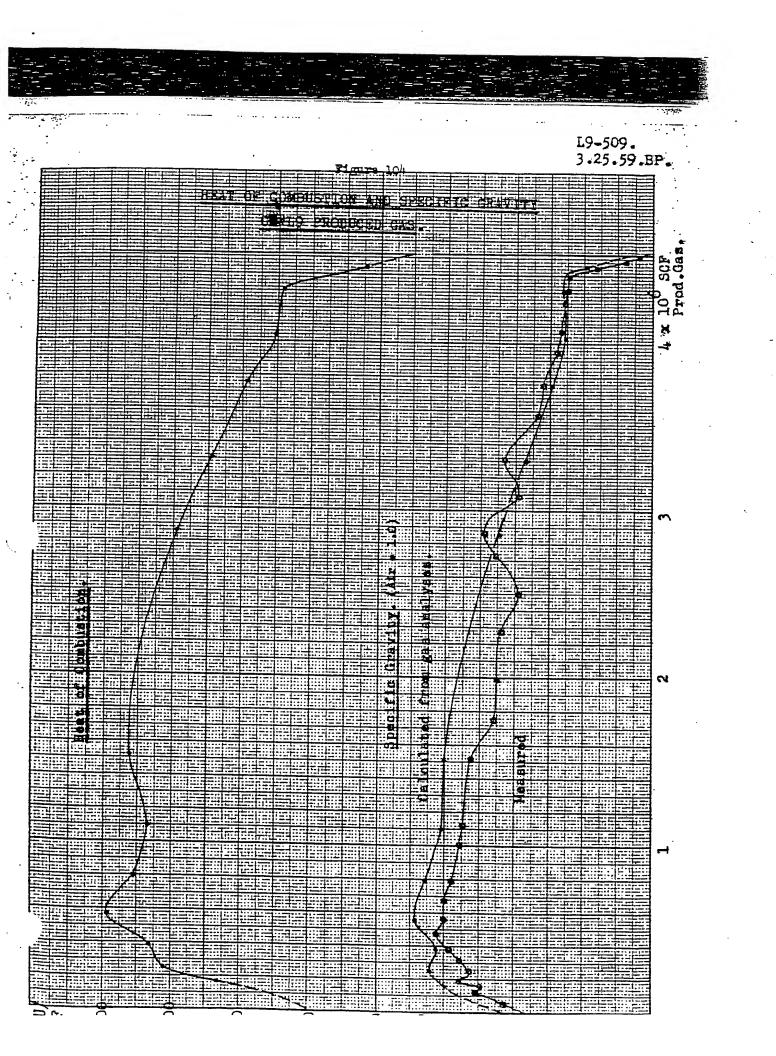


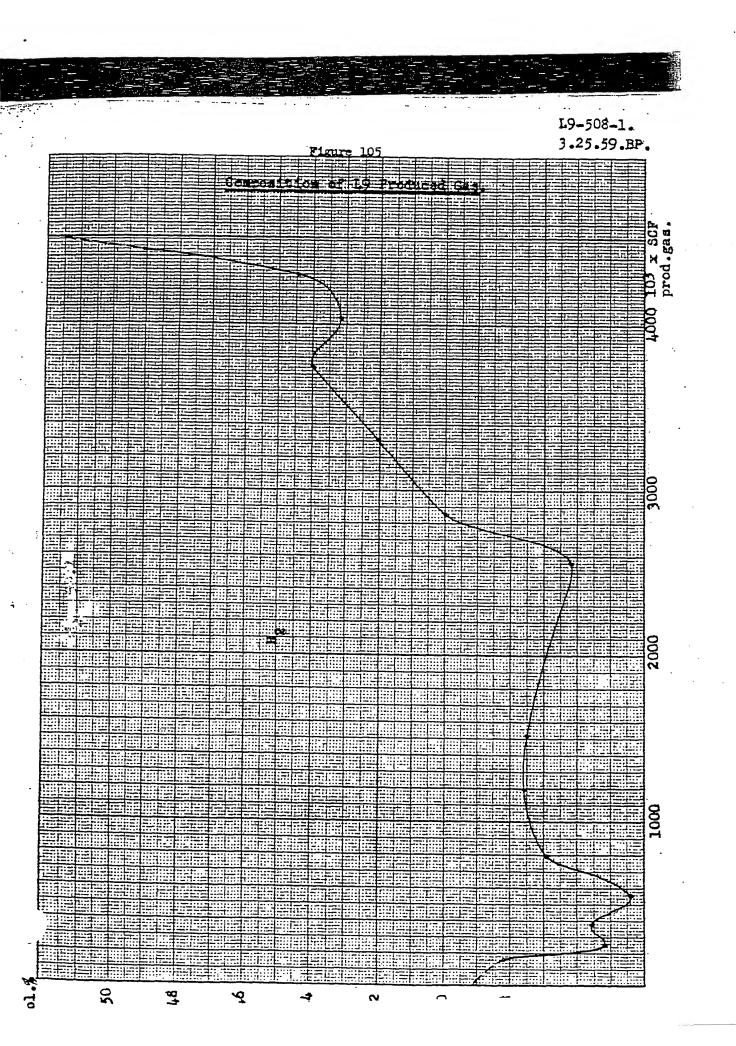


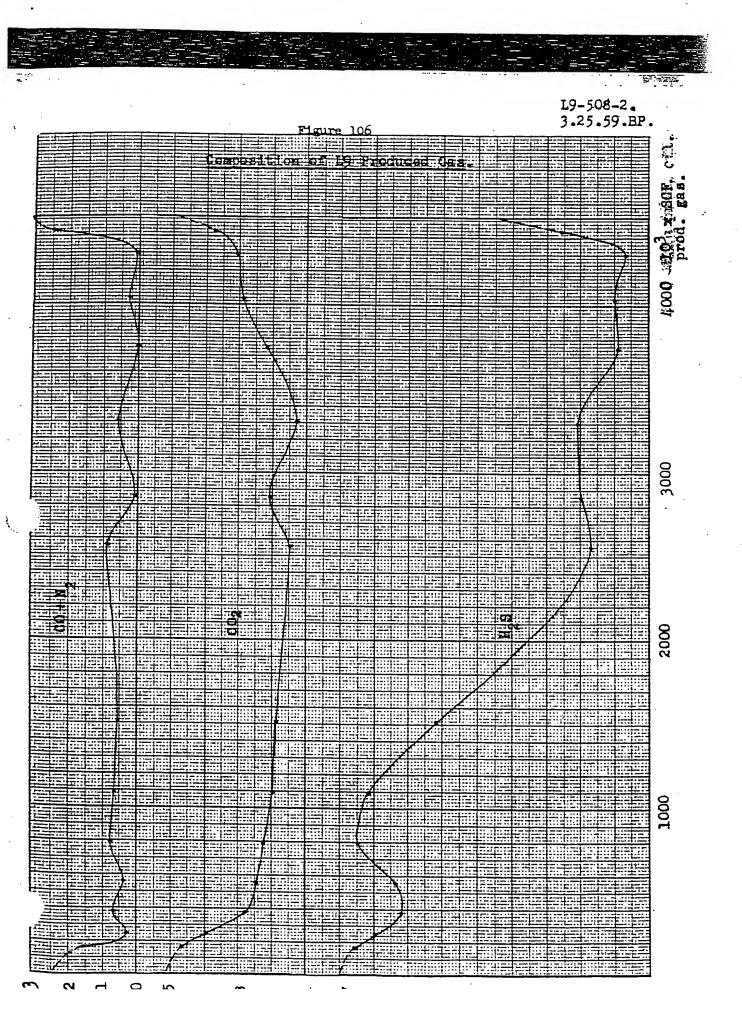


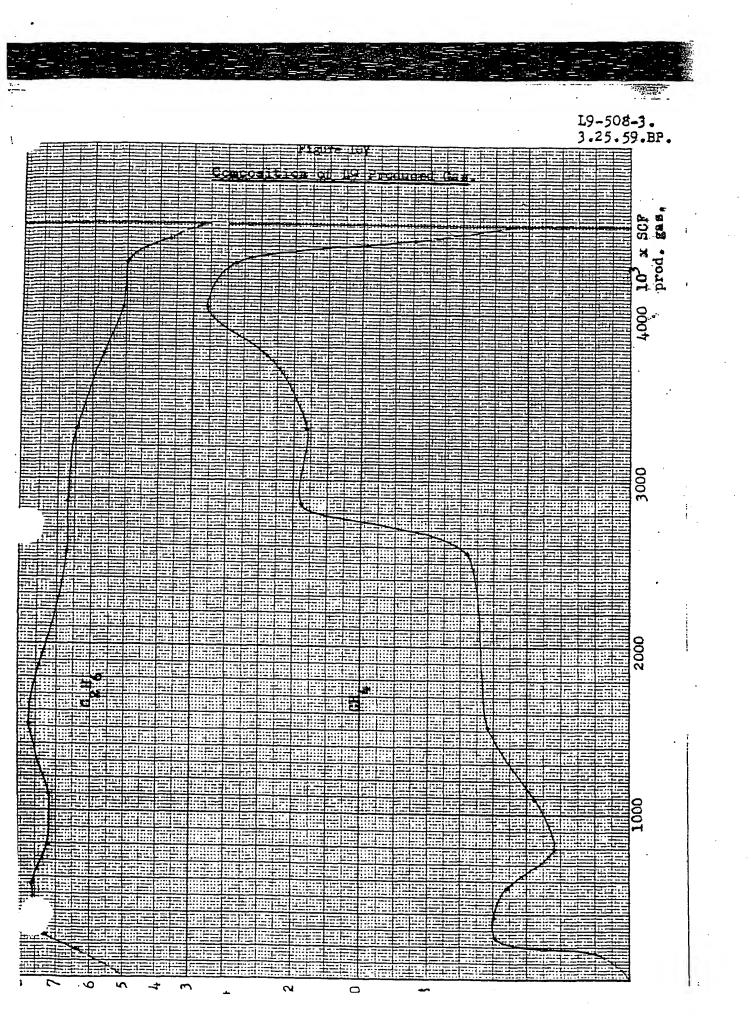


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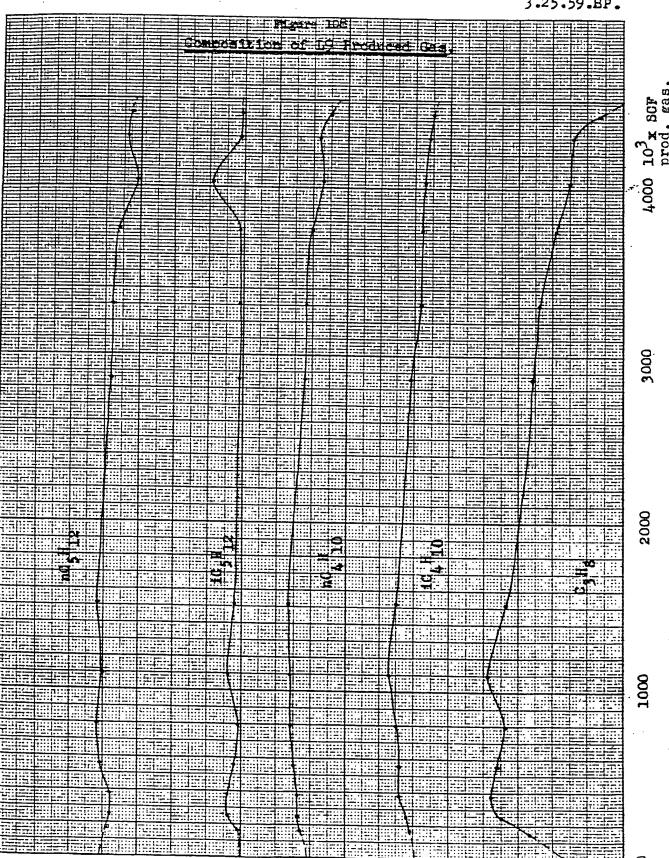








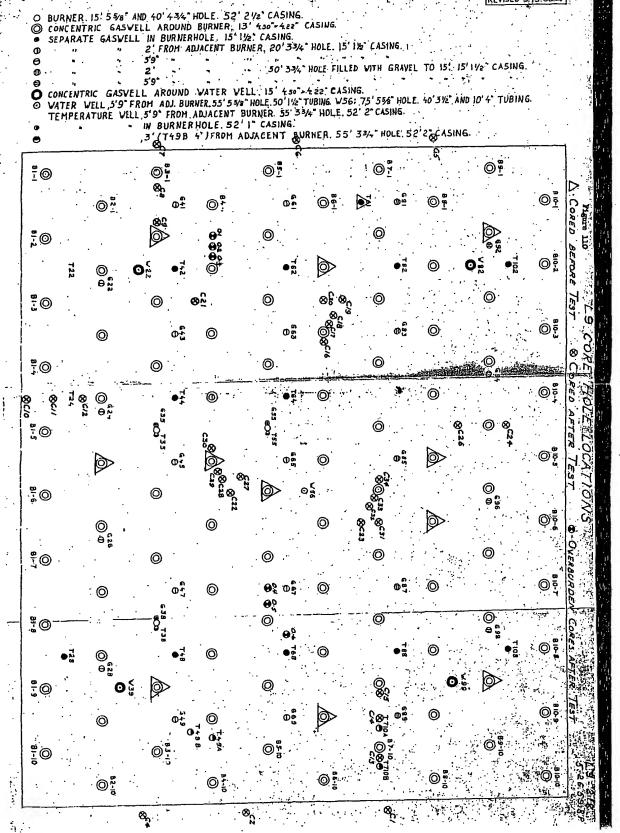
L9-508-4. 3.25.59.BP.



L9-508-5. 3.25.59.BP.

HOLE PATTERN OF TEST L9.

JAN. 2 L.1958. B.P. REVISED 3.15.58.09



L9 CORE HOLE LOCATIONS Figure 110

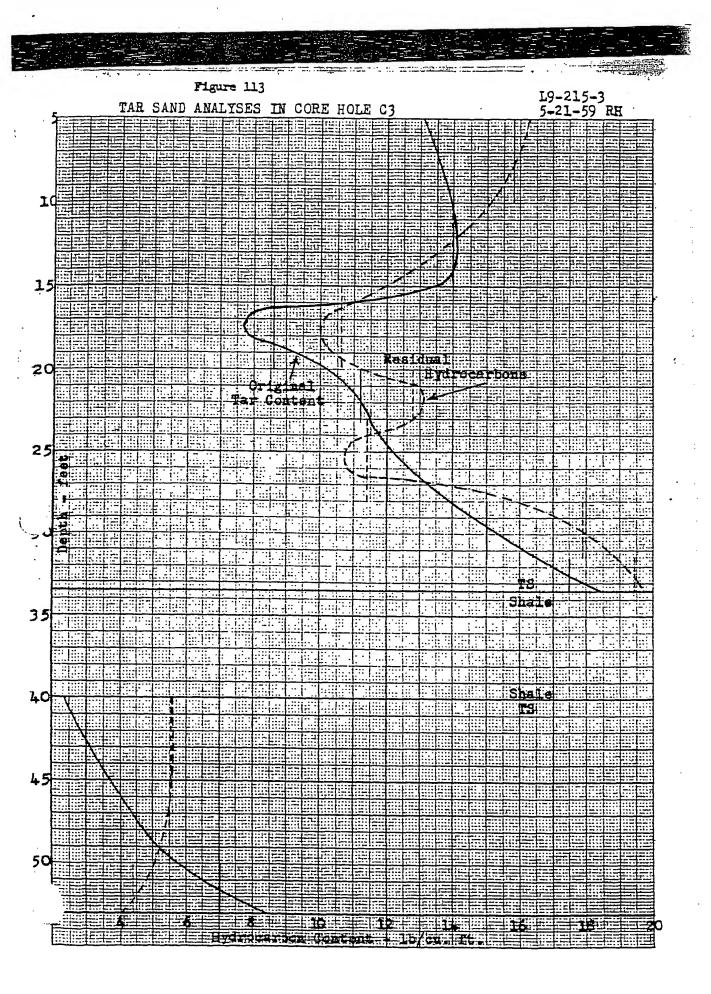
| Core Hole | Locations |
|--------------|--|
| C1 | 10 N. of B7-10 then 1 west |
| C 2 | 10' N. of B5-10 then 4' - 4" west |
| c 3 | 7' N. of C2 |
| C4 | 10' N. of B3-10 then 2'-4" east |
| . C 5 | 10' S. of B8-1 |
| c 6 | 10' 8. of B6-1 then 4'-4" east |
| C 7 | 5' S. of B3-1 |
| c 8 | 2' N. of B3-1 (between B3-1 and B3-2) |
| c 9 . | 2'-3-1/2" s. of B3-2 () |
| Clo | 11'-5-1/2" E. of B2-4 |
| Cll | 7'-10-1/2" E. of B2-4 |
| C1 2 | 3'-8" E. of B2-4 (between B2-4 and T24) |
| C13 | 1'-5" N. of B7-10 |
| . C14 | 4'-6" S. of B7-10 (between B7-10 and B7-9) |
| C15 | 1'-1-1/2" N. of B7-9 () |
| C1 6 | 10" N. of B6-3 |
| C17 | 1'-5" from B6-3 towards E7-2 |
| C18 | 21-11" " " " |
| C19 | 5'-9" " " " (between B6-2, 6-3, 7-3) |
| C2 0 | 5' S. of B6-3 (between B6-2 and B6-3) |
| C21 | Midway between B3-3, B4-2, and B4-3 |
| . c22 | " B4-5, B4-6, and B5-6 |
| c23 | " " B6-6, B7-6, and B7-8 |
| C24 | 2'-5-1/2" west of B9-5 |
| c 25 | 3'-5" east of B9-5 |

19 CORE HOLE LOCATIONS Figure 110

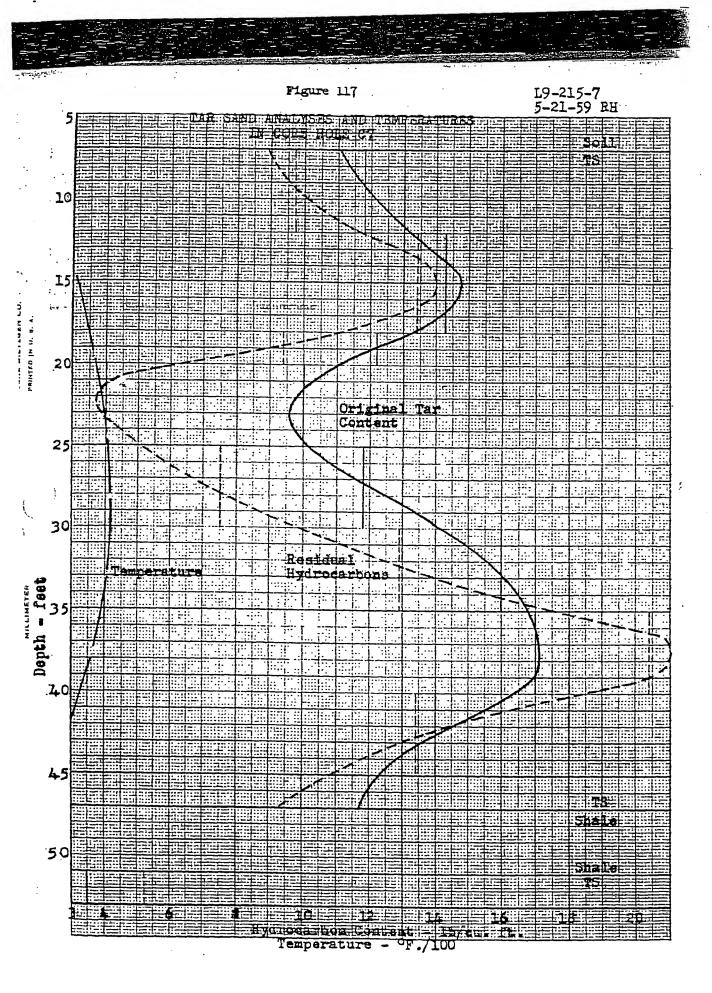
| Core Hole | | | | Loc | ations | • | • |
|-------------------|-----|--------|--------|---------|-----------|----------|---------------|
| c 26 | | h*-5" | east | of B9- | 5 | | |
| · c27 | ••• | 5' fro | m Bli- | 5 betw | een Bi- | -5 and I | 15 - 6 |
| c 28 | | 2'-11" | from | B4-5 | toward | 3 B5-7 | |
| c 29 | • • | 1'-5" | 100 | | # | • | |
| c 30 | | 11* | ** | 11 | 38 | Bh-h | |
| C31 | • | 5' fro | in B7- | -6 beta | æen B7 | -6 and 1 | B7-7 |
| c 32 | | 2'-11" | iro | B7-6 | toward | s B6-7 | |
| c 33 | | 1'-5" | # | * | ** | * | |
| C3 ¹ 4 | • | 10" to | 12" | from | 87-6 to | wards B | 7- 5 |
| c 35 | ٠ | 14'-7 | 1/2" | east : | of B2-4 | | |

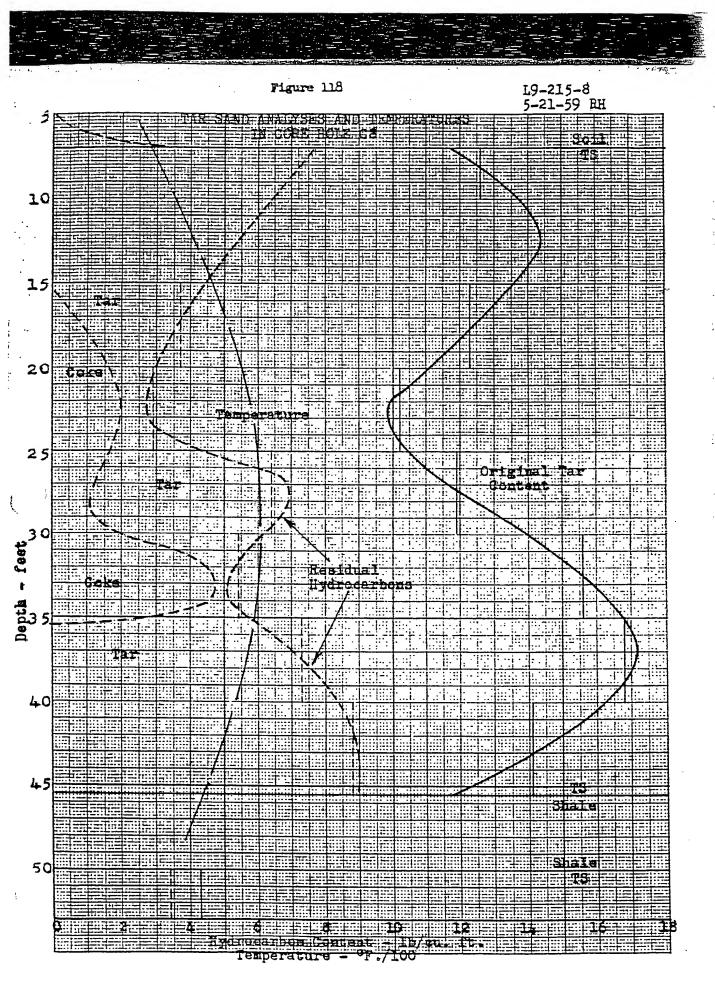
L9-215-1 5-19-59 RH

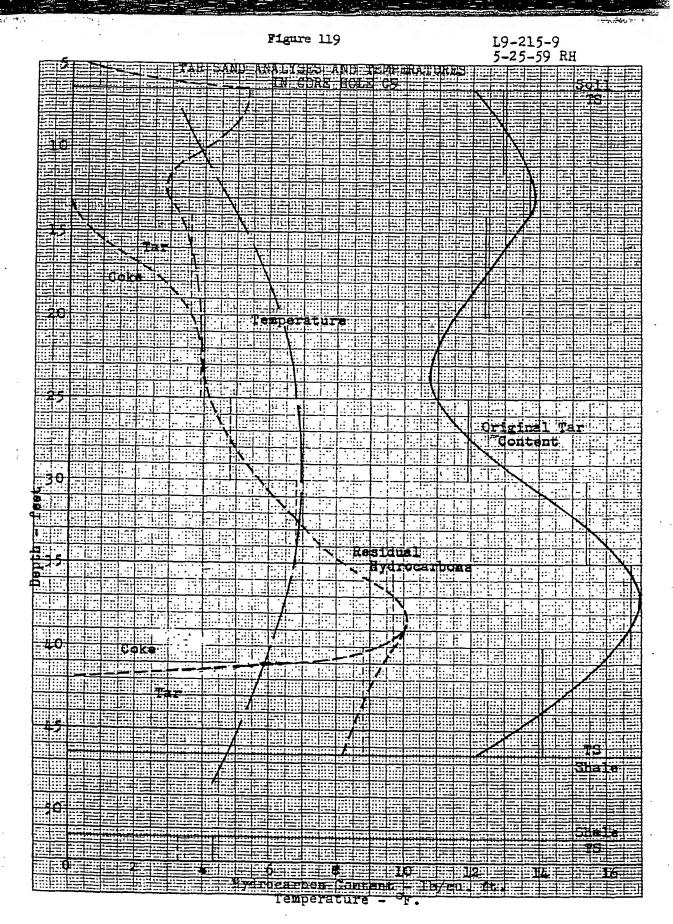
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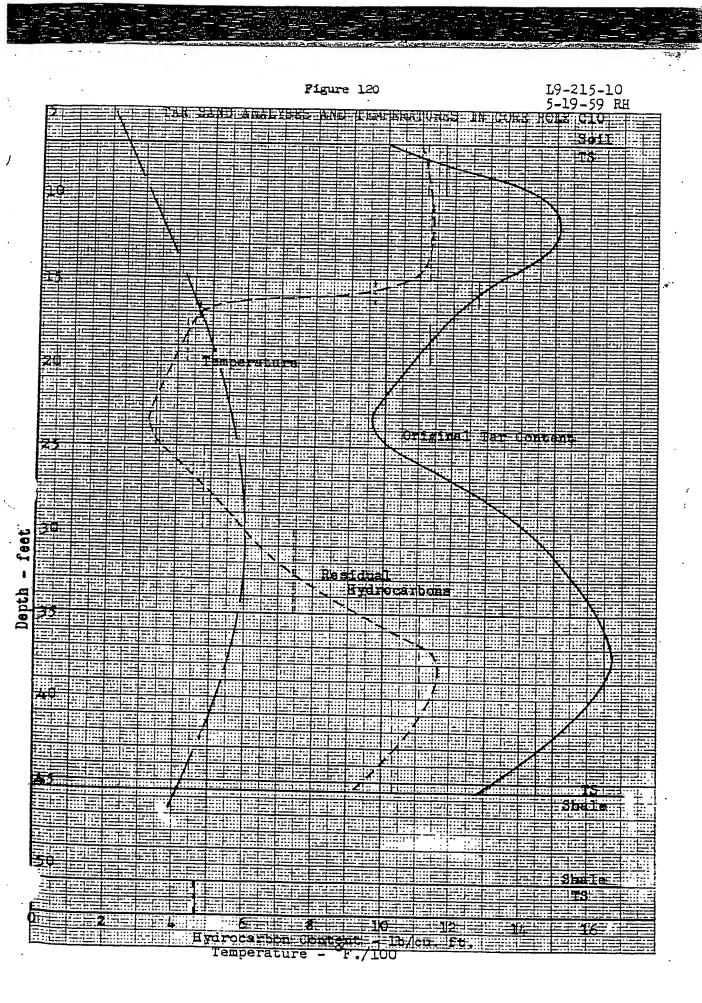


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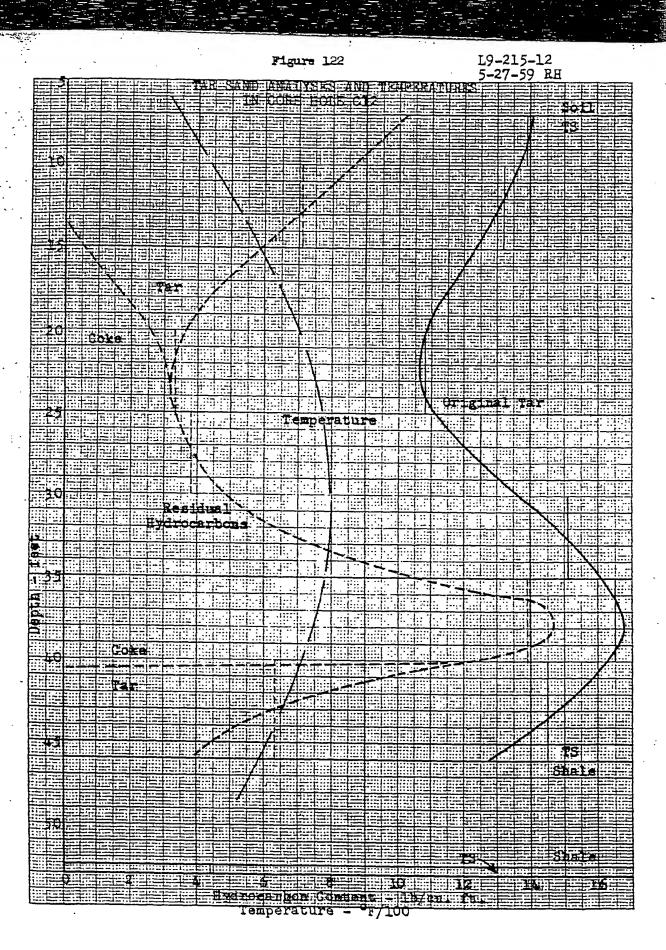


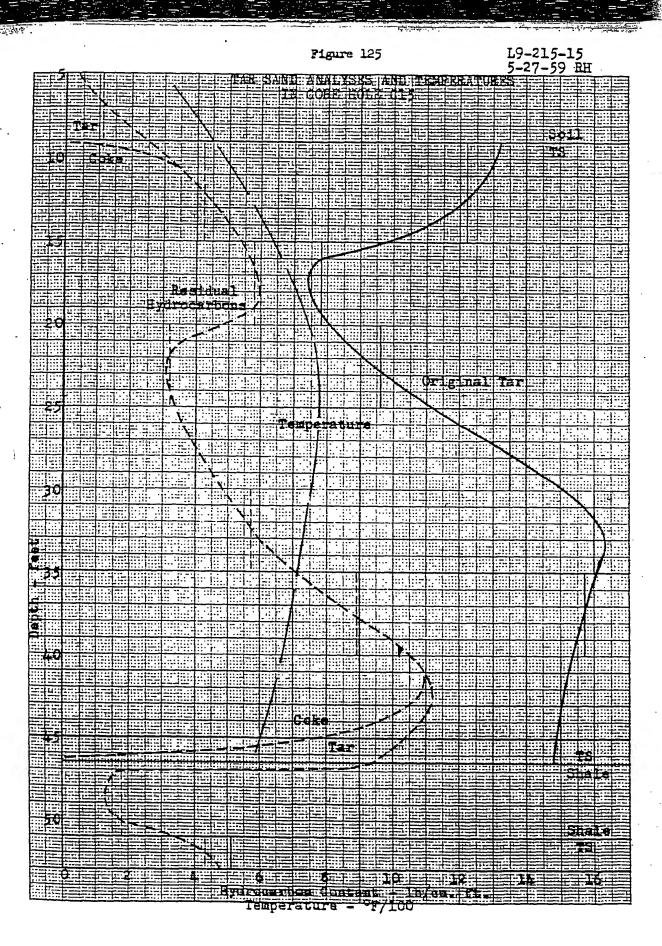






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L9-215-16 Figure 126 5-14-59 RH NO DESCRIPTION OF THE SAME AND TRAPERATURES TO THE SAME TO SAM , i l: Bydrocarbons: **!** :: ·]:: . .:::

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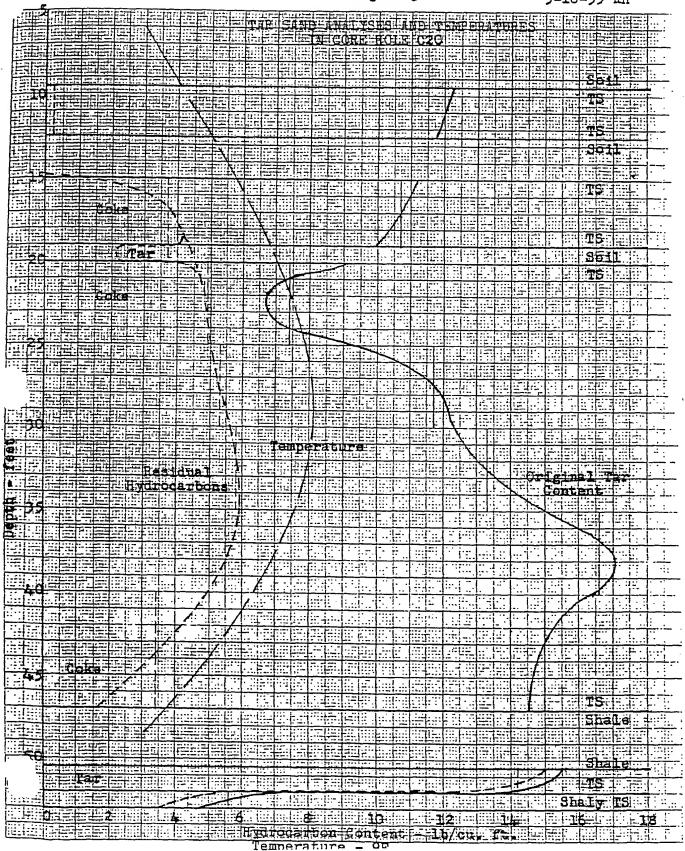
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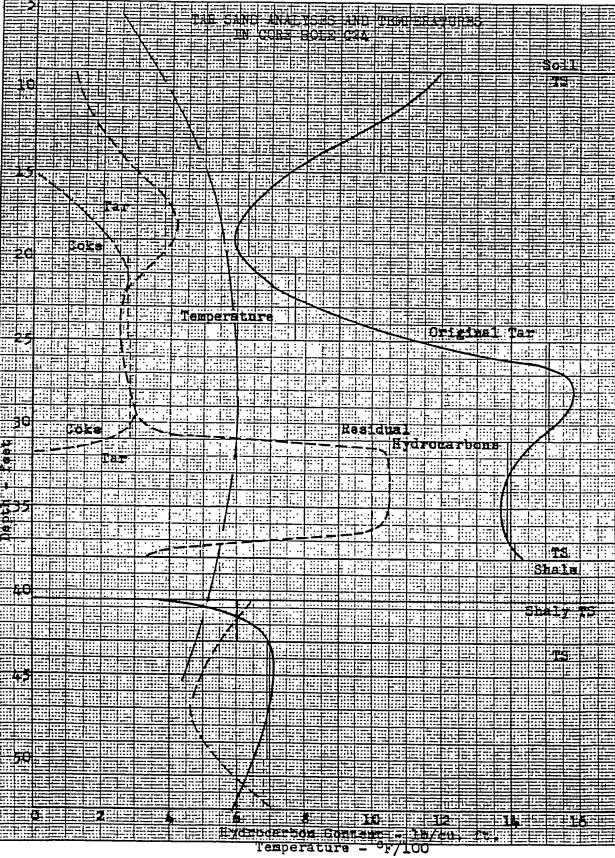


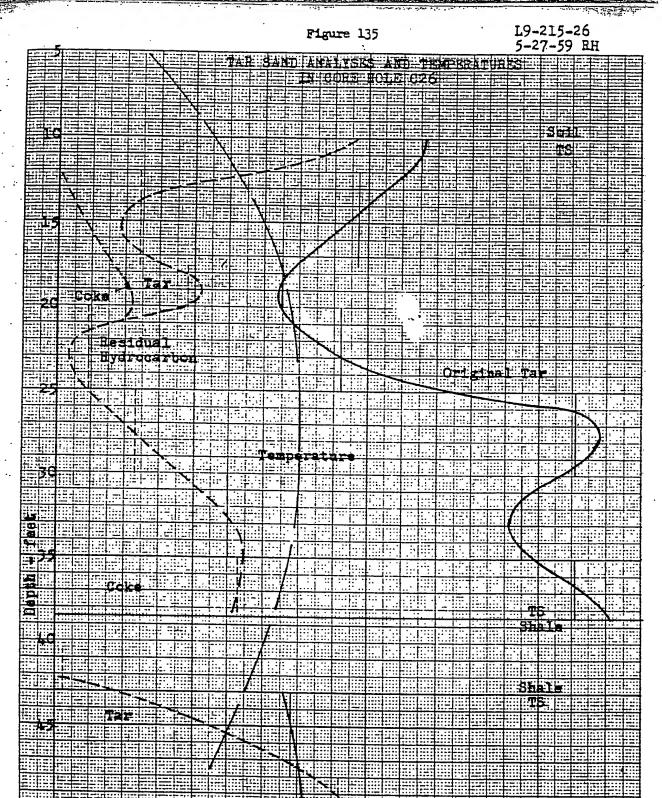
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Figure 132 L9-215-22 5-18-59 RH SAND ANALYSES AND REPREMATURES
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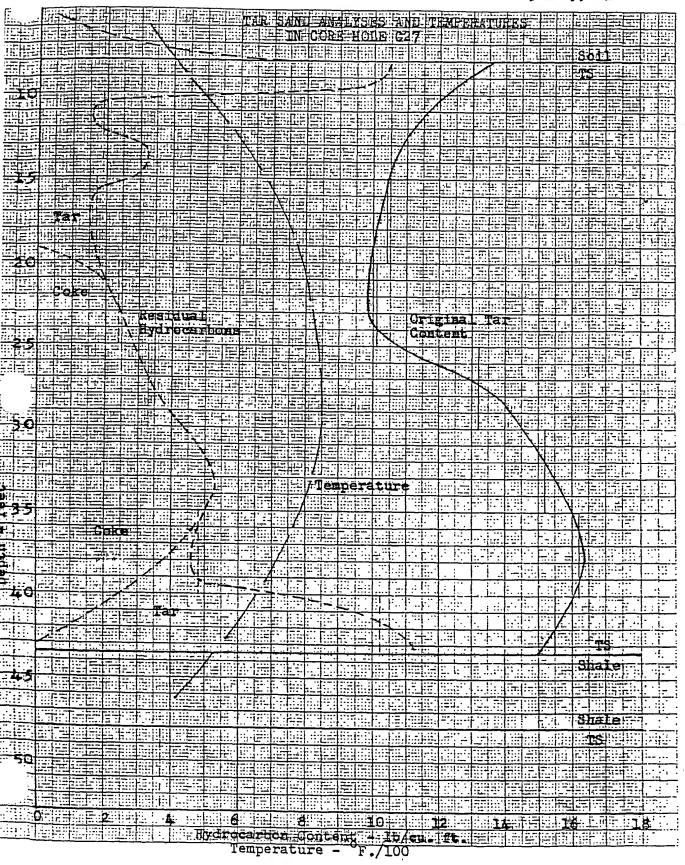
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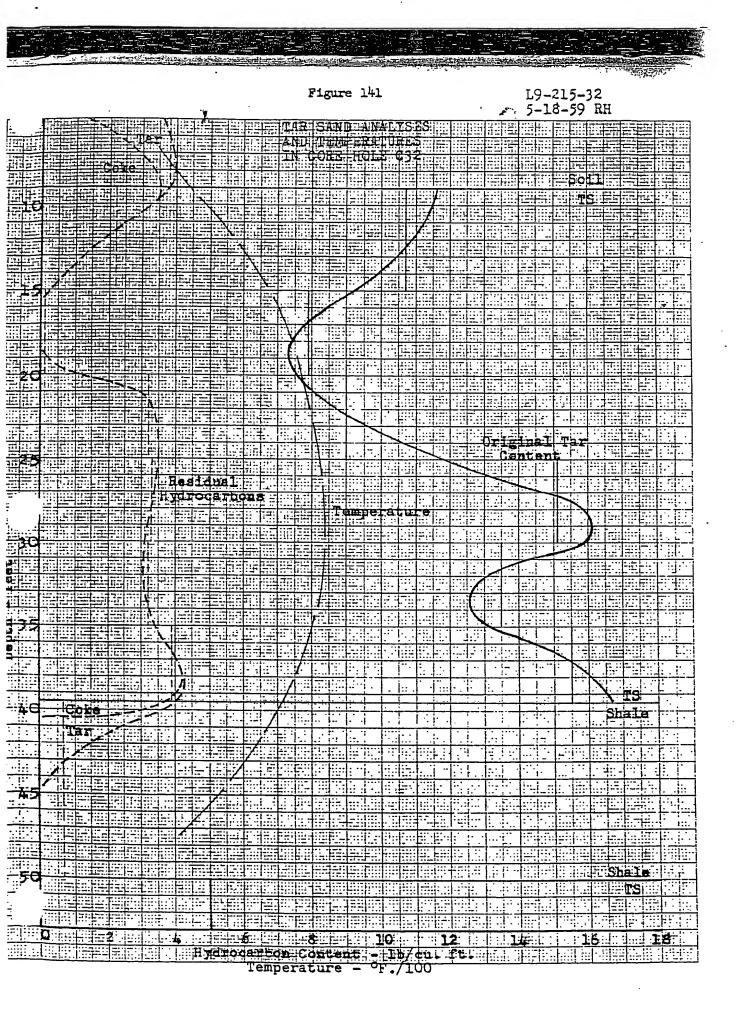


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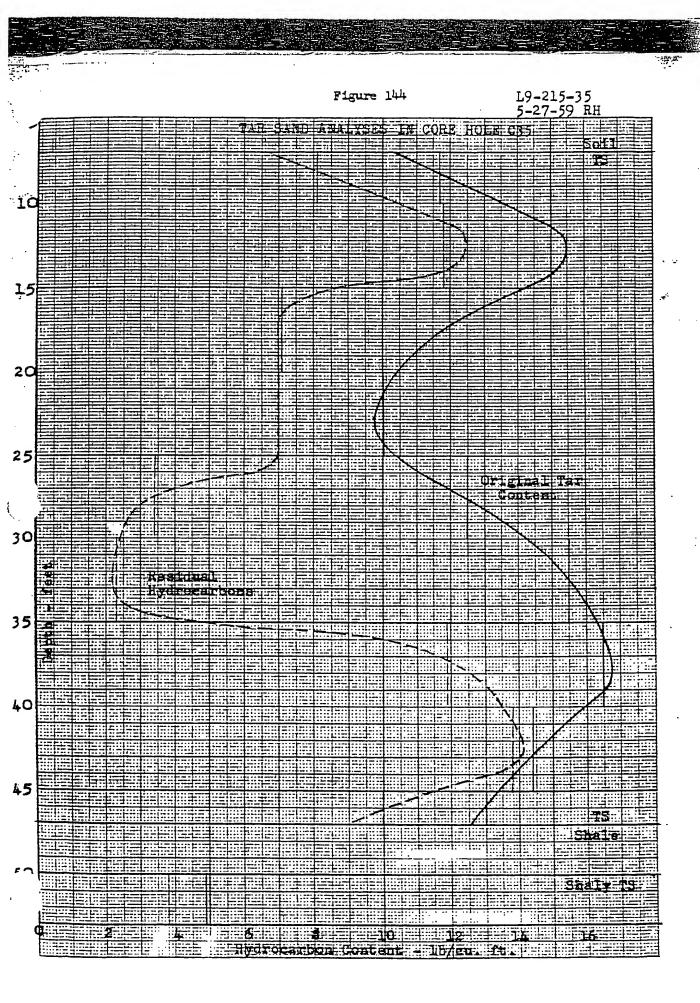
Figure 138 L9-215-29 TAR SAND ANALYSES 5-18-59 RH. AND TEMPERATURES... IN CORE HOLE C29 Residual lemperature Coke 12 1 16 fydrecarbon Content - 15/cul ft Temperature -

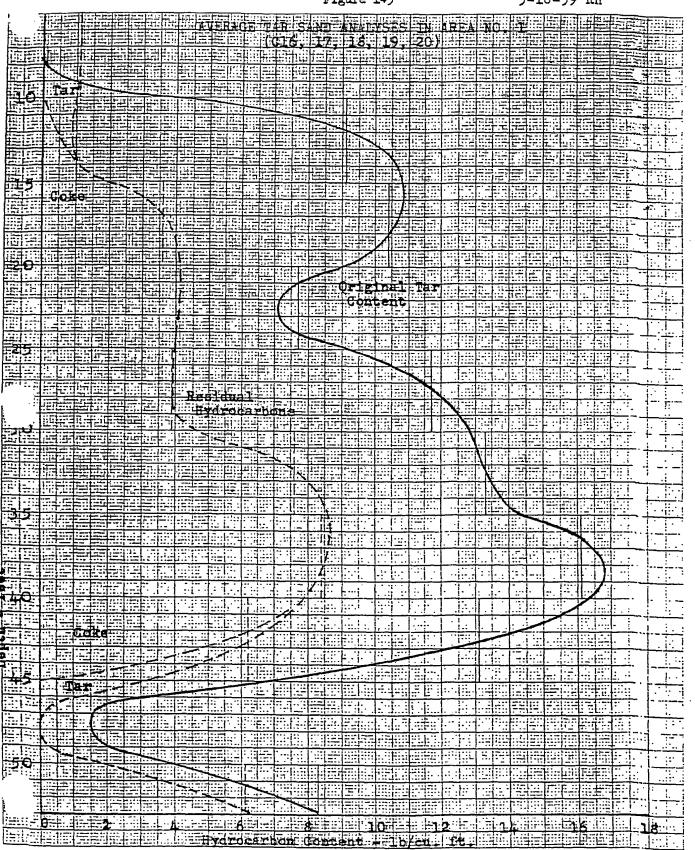
7个中央中国100 Figure 139 L9-215-30 5-18-59 RH TAR SAND ANALYSES IN CORE HOLE C30 Residual Hydrocarbons ij. .: ; į... . . E . ! • 44. 14. 16 - 18



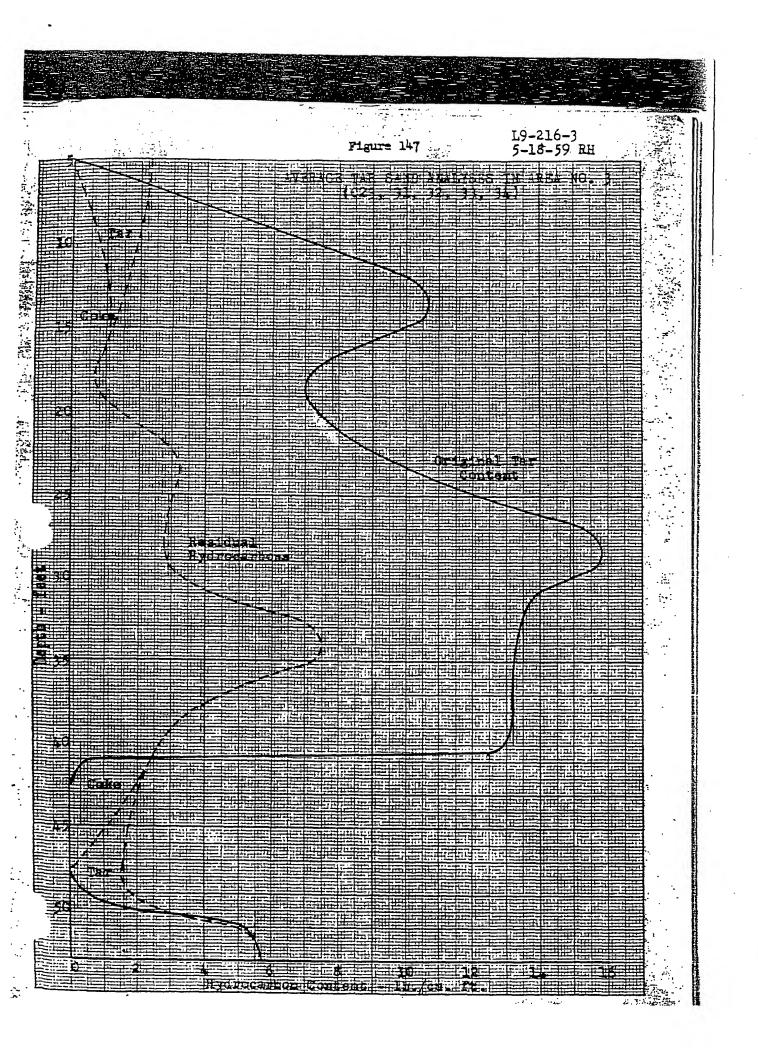
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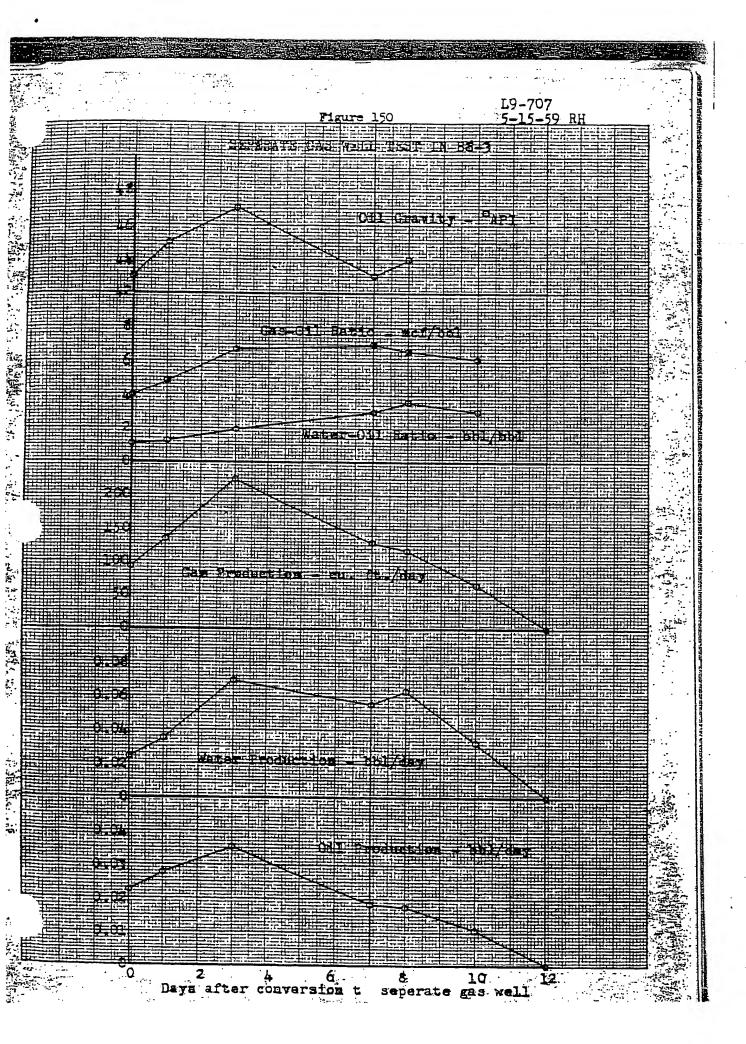


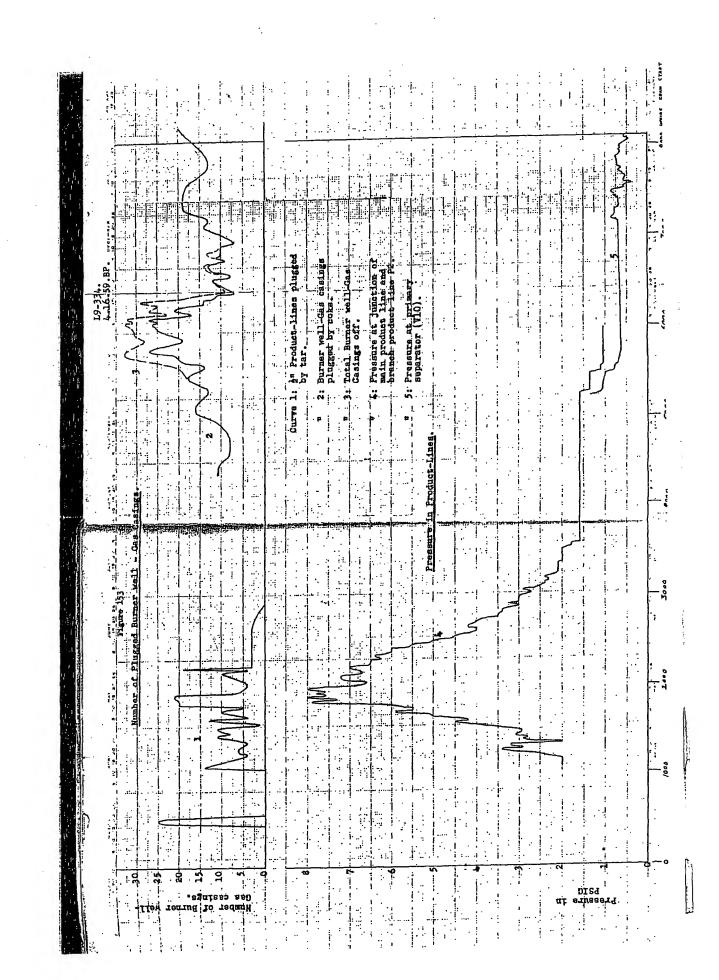
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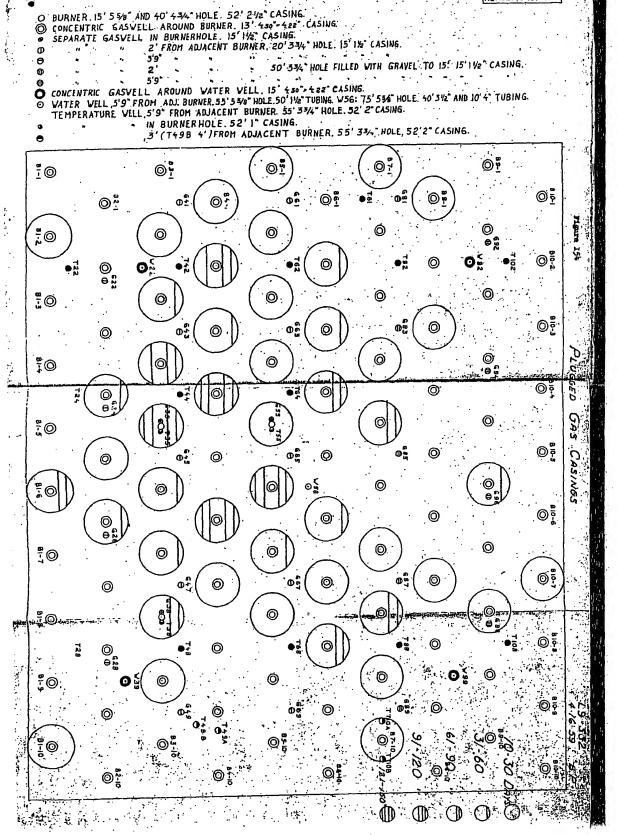
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HOLE PATTERN OF TEST L9.

JAN. 2 1.1958. BP REVISED, 3.15.58.AP



JAN. 21.1958. 85 REVISED 3.15.58.49 BURNER. 15' 5 48" AND 40' 434" HOLE. 52' 2 12' CASING. CONCENTRIC GASVELL AROUND BURNER. 13' 430" 422' CASING. SEPARATE GASVELL IN BURNERHOLE. 15' 11/2' CASING. " 2' FROM ADJACENT BURNER, 20' 334" HOLE. 15' 1% CASING. 50' 33% HOLE FILLED WITH GRAVEL TO 15' 15' 172" CASING. O'CONCENTRIC GASVELL AROUND WATER VELL. 15' 450" 422" CASING. O WATER WELL, 5'9" FROM ADJ. BURNER. 55' 550" HOLE. 50' 102" TUBING. W56: 75' 556" HOLE. 40' 372" AND 10' 4" TUBING. TEMPERATURE VELL, 5'9" FROM ADJACENT BURNER. 55' 35'4" HOLE. 52' 2" CASING. IN BURNERHOLE. 52' 1" CASING. 3'(T49B 4')FROM ADJACENT BURNER. 55' 334" HOLE. 52'2" CASING. <u>©</u> 0 } <u>.</u> Φ£ <u>@</u> . © 0 0 0 **E** O 0 0 5 Φ.7. O.E (O) 0 **●*** 635 T35 .:**©** 0

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